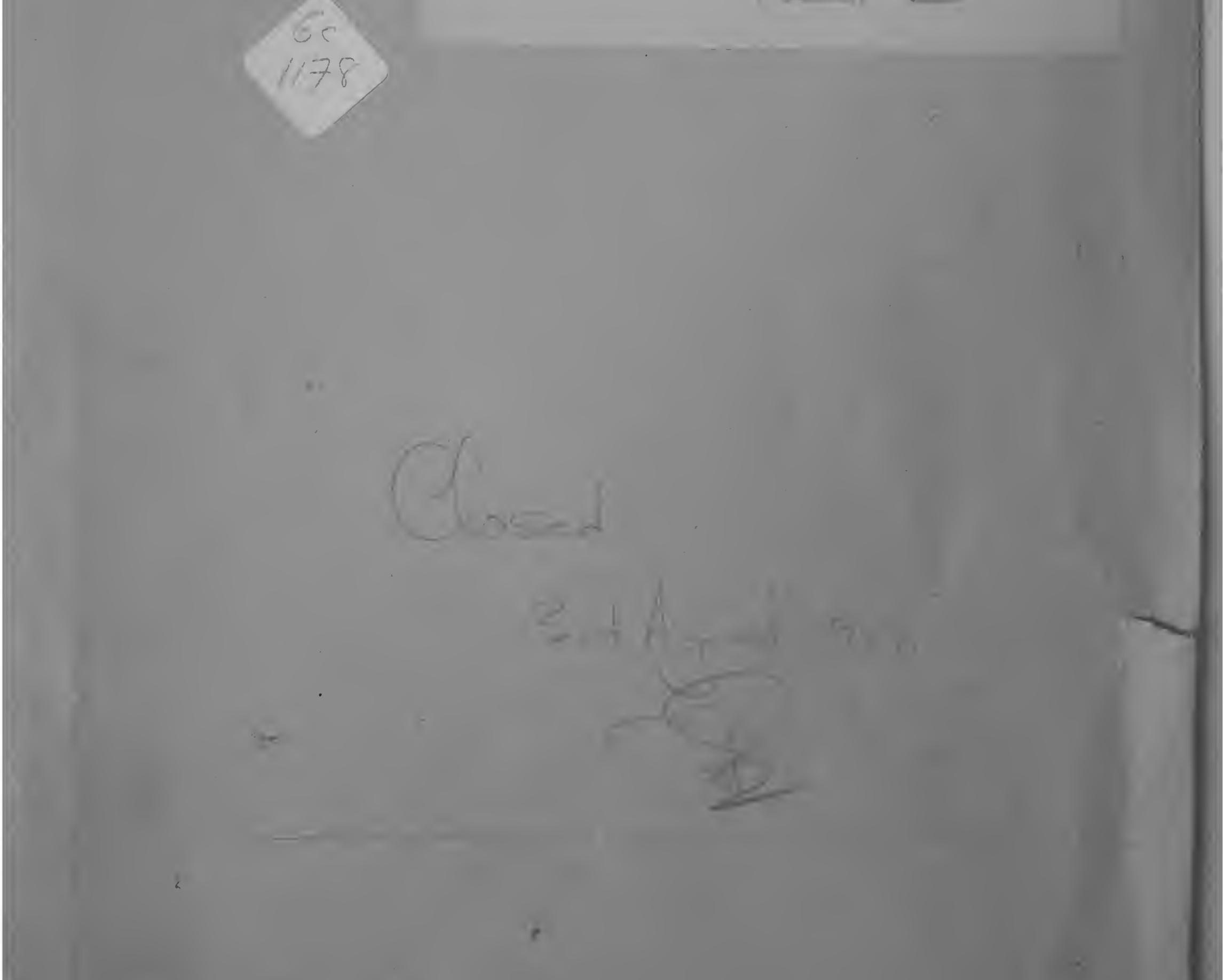
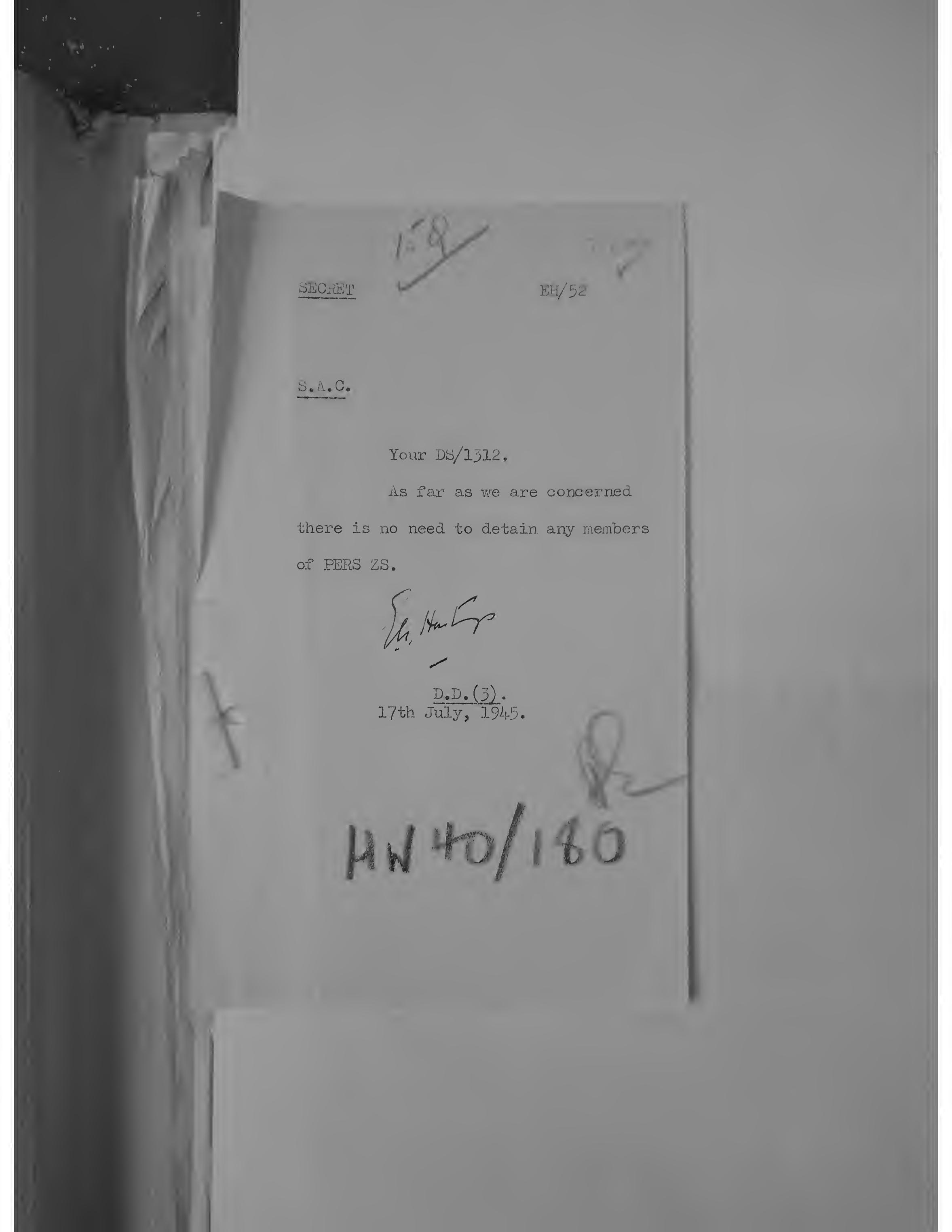
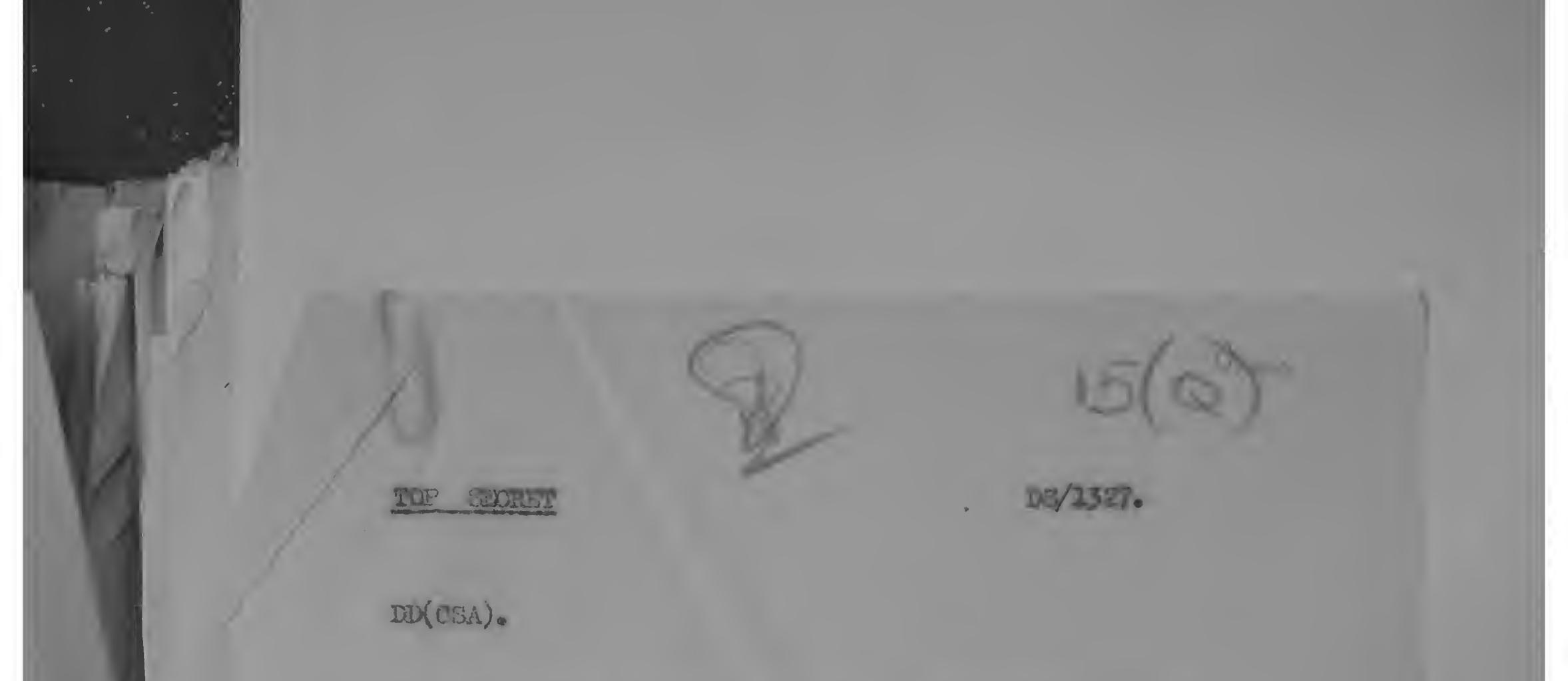
· 644 HW H0 180 Group Class Piece PERS Z-S







Herewith translations of the ceptured Comments from the Pers Z S archives, and dealing with British

civil traffic :---

- (a) Letter datel 16,6.41 from G. HUL to Frin. HIGEN, about Ibreign Office prefixes.
- (b) Relevant extracts from the Ross 3 S Anna 1 Report for 1941.

DS/1262 of 14th June, 1945, formed a translation similar to (b) above, but for 1942.

and the second

1go-A

15th Jely, 1945.



TRANSLATION OF A LETTER TO FRAULEIN HACEN, MEAD OF BRITISH SUBSECTION (II A 2.) OF CRYPTANALYTIC SECTION OF GERMAN MINISTRY OF F.A. (PERS 2 3)

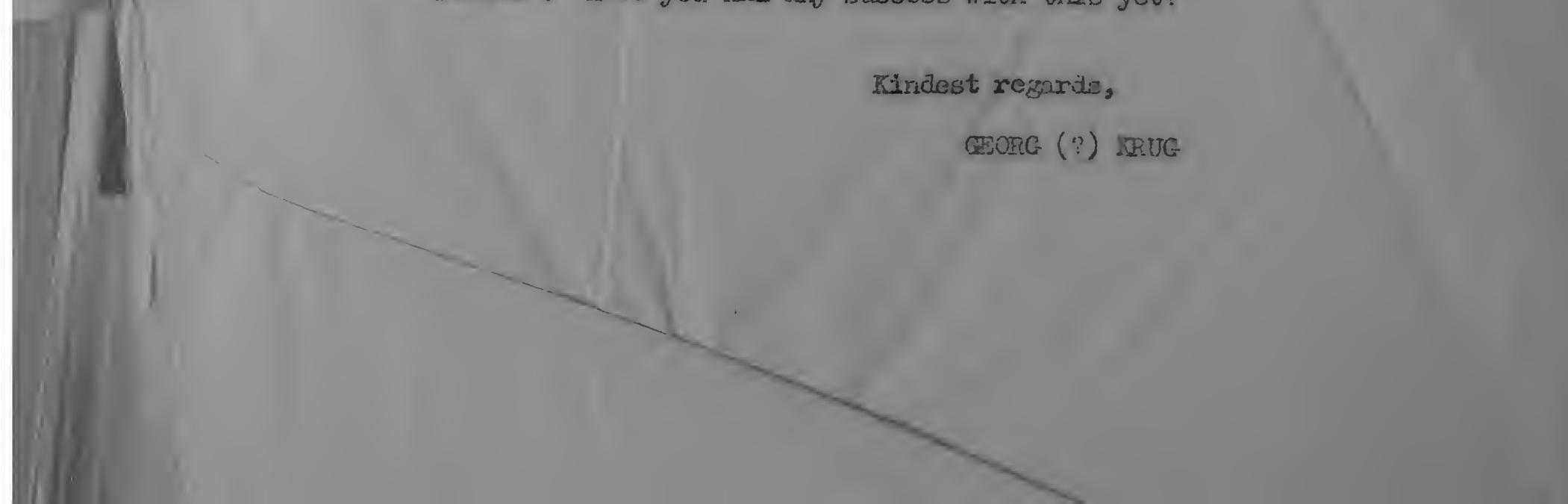
Signed KRUG dated 16/6/41

BERLIN 16/6/41

Jägerstr. 12.

My Dear Fraulein Hagen,

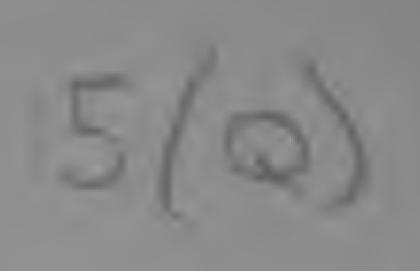
Many thanks for your letter of 7/6. As far as our principal tasks allow, we are already investigating the meaning of a few groups which still puzzle us, as e.g. "INDIV", DIPPY or DIPPK etc. DEDIP, DALLY, DEJOU, to mention the most important. If we obtain any results or part results I shall inform you. I cannot yet work on the May material you sent us. If, as you write, "OP" occurs frequently in conjunction with "INDIV", I cannot help thinking that "OP" must be only a departmental designation - perhaps an abbreviation of "opinion" - especially as only one "OP" telegram per day is sent from London to nearly all the British diplomatic missions. Perhaps it is some sort of situation report. For your investigation of the "Lode" I an sending you, as agreed, the 5-figure indicator groups from the 'R-Code'. Have you had any success with this yet?



CRYFTOGRAPHIC SECTION OF THE GERMAN MINISTRY OF FOREIGN APPAIRES

ANNUAL REPORT FOR 1941 DY

TRINSLATION OF



ON CODES AND CYPHERS OF THE BRITISH RAPIRE

(The last eight and a half pages of the report are not reproduced here. They consist of short reports on the codes and cyphers of THAILAND, PORTUGAL, BRAZIL, SPAIN, IRGENTINA, BOLIVIA, CHILE, THE DOMINICAN REPUBLIC, ECUADOR, COLOUBIA, MEXICO, PERU, URICULT, VEMEZUELA and a few other S. American countries

G.C.C.R. (S.L.C.)
18th June, 1945.

### Annual Report for 1941 for Section dealing with DRITISH PAPINE,

THATLAND, PORTUGAL, SPAIN and LATIN-AMERICA. (dated 11/2/42)

### GREAT BRITAIN

The following were worked one-

#### Exitish Figure Cyphers a)

The "Interdepartmental Code" ((sic)). The book underlying 1) this code has been captured and occasionally sections of

the subtractor were placed at our disposal by OKW and the

Air Ministry as they were worked out. We were able to pub-

lish a few telegrams from the Middle East. However towards

the end of the year the volume of traffic was so small that

it no longer appears worth while continuing work on this

material.

PRODROME : in the hands of Dr. HUNZE 2)

#### British Letter-codes b)

1) "B 25", a 4-letter, hatted orde book of 16,224 groups. It

has been broken and recovered to such an extent that it has

now been possible for a fairly long time to publish the tele-

grams almost untirely without missing groups. In Autumn 1940

a captured copy of the original book was sent to us which

enables us to read the telegrans completely.

2) "B 22", a 5-letter alphabetic code-book of 84,000 group. It

has been broken and the telegrams have been published complete

for about 3 years now. In summer 1940 we were also given a

captured original of this book.

3) "B 30" a hatted code-book of 4 letter groups which is used

in the Near, Middle and Far East. The volume is slight but

we have begun to make a register and have ascertained the sum

of the digits ((quersume)) of the groups and the size of the

book.

Not worked on :-

A consular cypher in TENERIFFE and LAS FALMAS traffic consisting

of a transposed clear-text and of which only a few telegrams

were received.

SOUTH AFRICA

Worked on:-

a) "B 22" (See GREAT BRITAIN a) 2) and

b) "B 23" a 5-letter alphabetic code-book about the same size

as "B 22" which has been broken and recovered sufficiently to

permit the publication, almost entirely without missing groups,

of all telegrams coming in - which is a present very for.

Not worked on :--

EIRE

A letter code in traffic with STOCKHOLL. Too little material.

The last telegram of this type has received on 16/12/41.

### EIRE

Worked on:-

a) "B 22" (See PREAT BRITAIN a) 2) and

b) "B 22" recyphered. Three or four different substitution

systems are used, each with 26 "T 26"'s, which are con-

structed with a Vigenere slide. The recyphering table is

used in such a fashion that one 5-letter group is sub-

stituted on T 26 n, the next on T 26 mil, T 26 mil 20r I 26 n+3

or T 26 n-1, T 26 n-2 or T 26 n-3. All the Irish telegrams

can be read completely. In 1941 223 Irish telegrams were

published

CANADA

Worked on :-

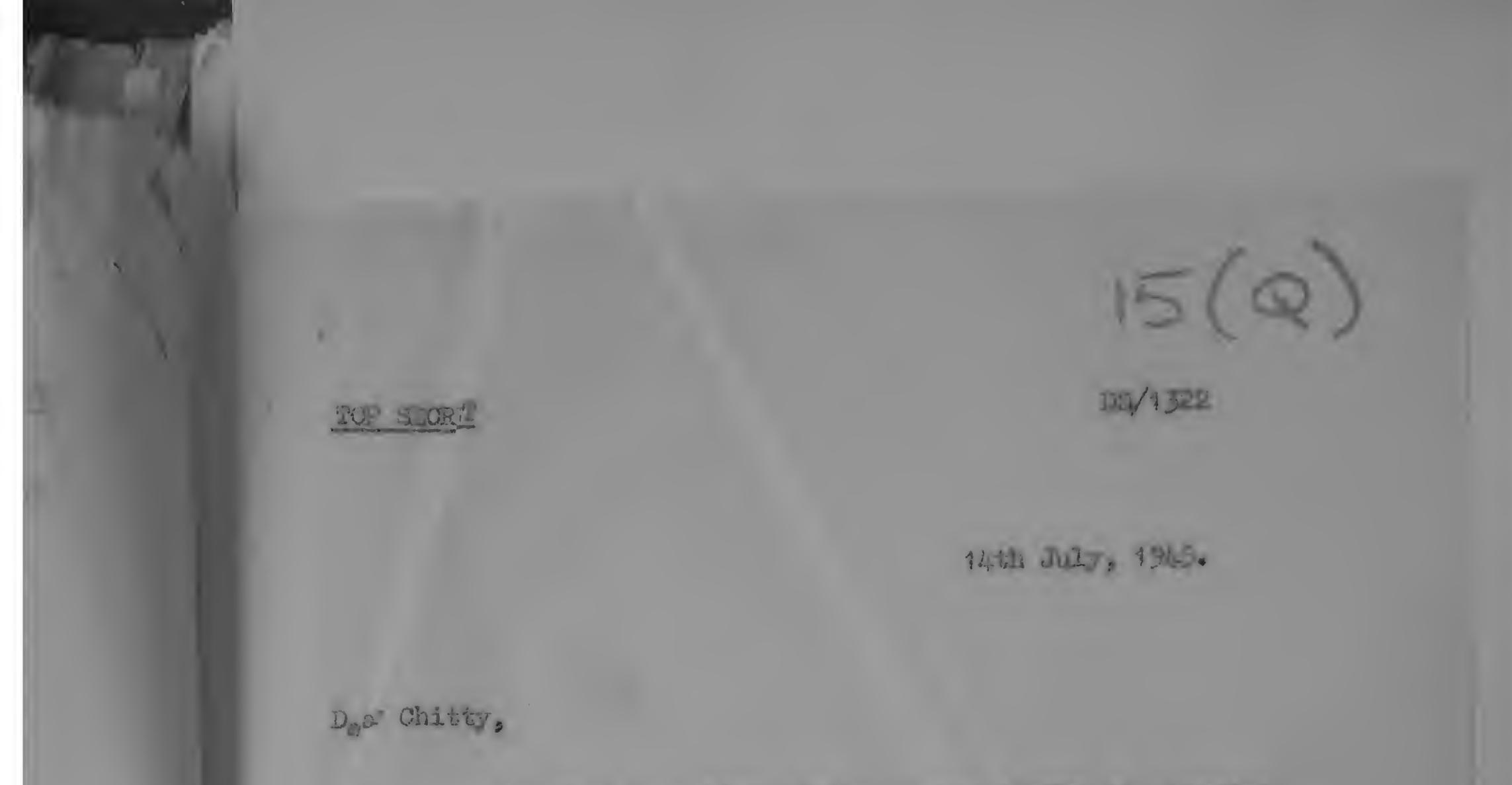
"B 22" (See GREAT BRITAIN a) 2)

Not worked on:-

A 5-letter code , of which only a few iseleted tel graus

have been received.

### In 1941 583 BRITISH IMPIRE telegrams were published.



Attached is a list of the captured PERS ..... A to D.

It is possible that one or two of the liters are in fact U.S. State Department and not F.O.

I think it is fair to say that all the matei and untranslatable.

Yours sinceroly,

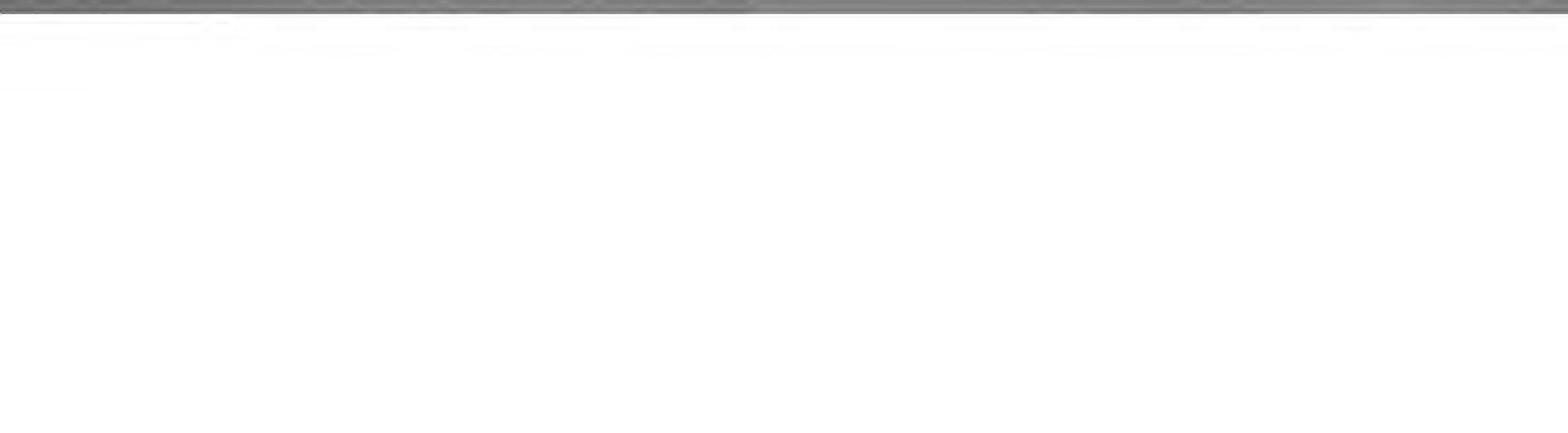


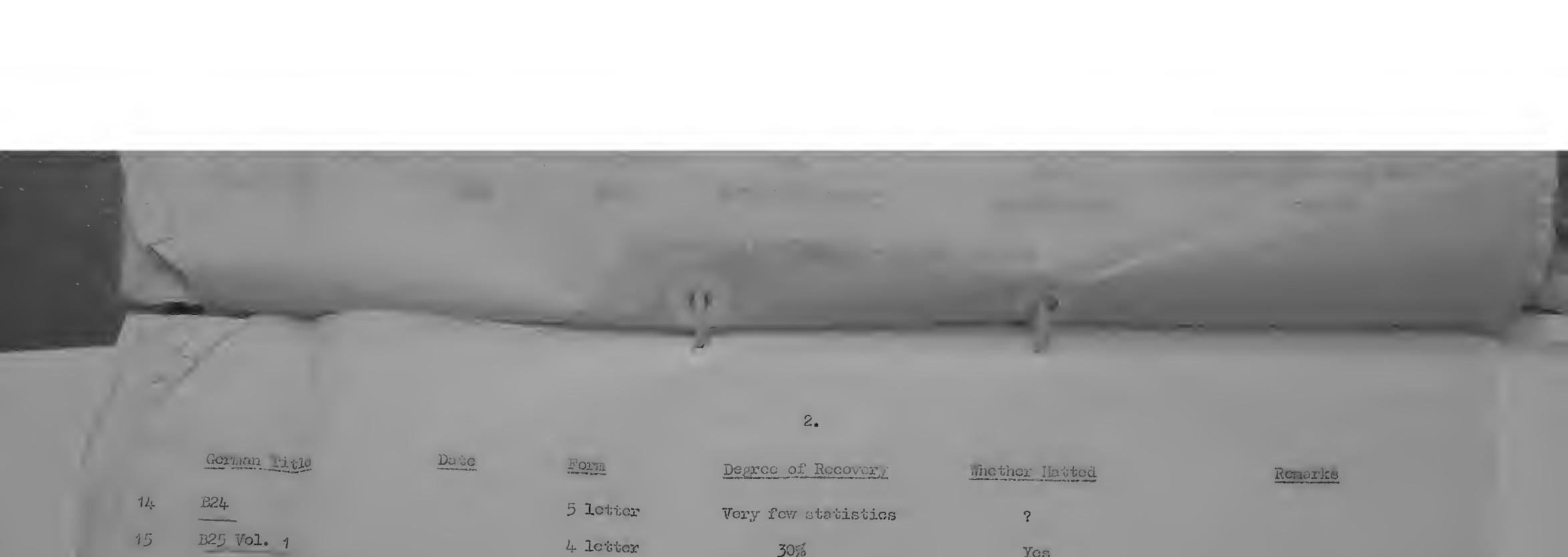
Lt. Colonel R. Chitty, Chesterield Street.

#### CAPTURED PIRS ZS DOCUMENTES - BRITISH SYSTEMS Whether Hatted Pomarke Desarce of Recovery Gez an Title Date FOIT Contains loose slips with wtra significations. Tes 50% 2. Station Code 5 letter 1

. 2	310		5 lctter	Very slight	No	Contains papers dated 8 and 12/1/34 cntitled: New Significations for E5 BC 10.
3	B11		5 letter	A for group statistics	?	
4	B12		5 lotter	3073	Yos	
5	Ī12		5 letter	35/5	Ica	
6	B13		5 letter	A few group statistics	?	
?	B13 (unused)					
8	B 14-					
9	⊇17		5 letter	A few group statistics	?	
10	10 702. 1	Oct 1930 - 30/9/35	4 letter	4D,-	Yes	
17	215 Vol. 2	0ct: 1930	4 letter	1,O, J	Ics	
						Group Statistics.
12	1 St. titil		5 letter	Very slight	100	Poers (marked for Trl. SIAT, c/o
13			J 10 0 0 0			Herr SILCHO, Cypler Burcau) connected with concrete and some of the second seco

Please turn over

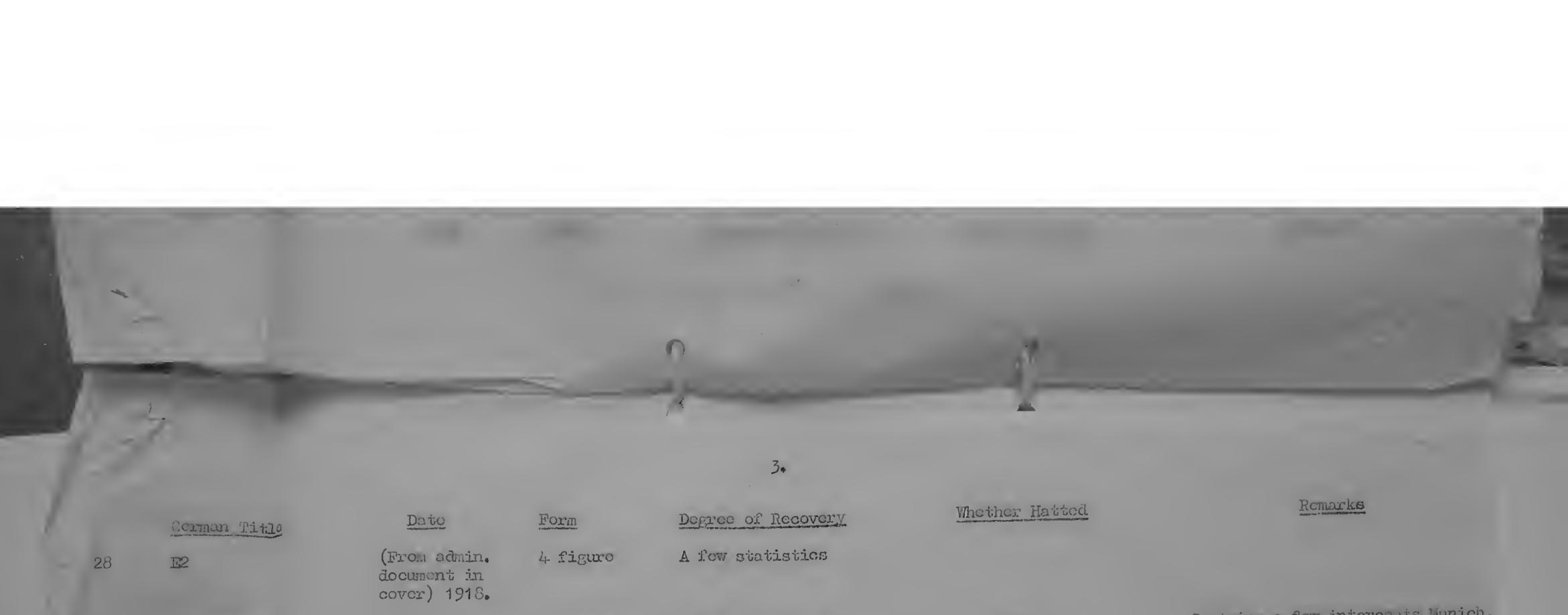




15	B25 Vol. 1	4 letter	30%	Yes	
16	126 SUILL AFRICA	5 letter	Very few statistics	?	
17	B30 . IGLAID	4 lotter	1,0,3	Yes	
18	H. Buchstaben- hilfscode (lotter aux. code)	5 lotter	Very slight	ĨĨo	
19	Inglische Gegeneode (British Decode)				Register of recovered cod roups in B2,
20	3	5 lotter	20%	Yes	List of 5 letter address and signature groups each beginning with U.
21	Code I.	4 figure	A for statistics	?	
22	D Statistik	4 figuro	A few statistics		
2.3	D	4 figure			List of fer 100 recovered groups.
24		4 figure	20,3		
25	G ROIT - MI, MART, CTINC, MILLIN	1. i'i_urc	20% group statistic	?	
26	4	4. figure	50,3	ïcs	
27	E	4. i'i.gur.	Statistics		Londlo of intercepts London From of to Stockhold, Oct. 1917.

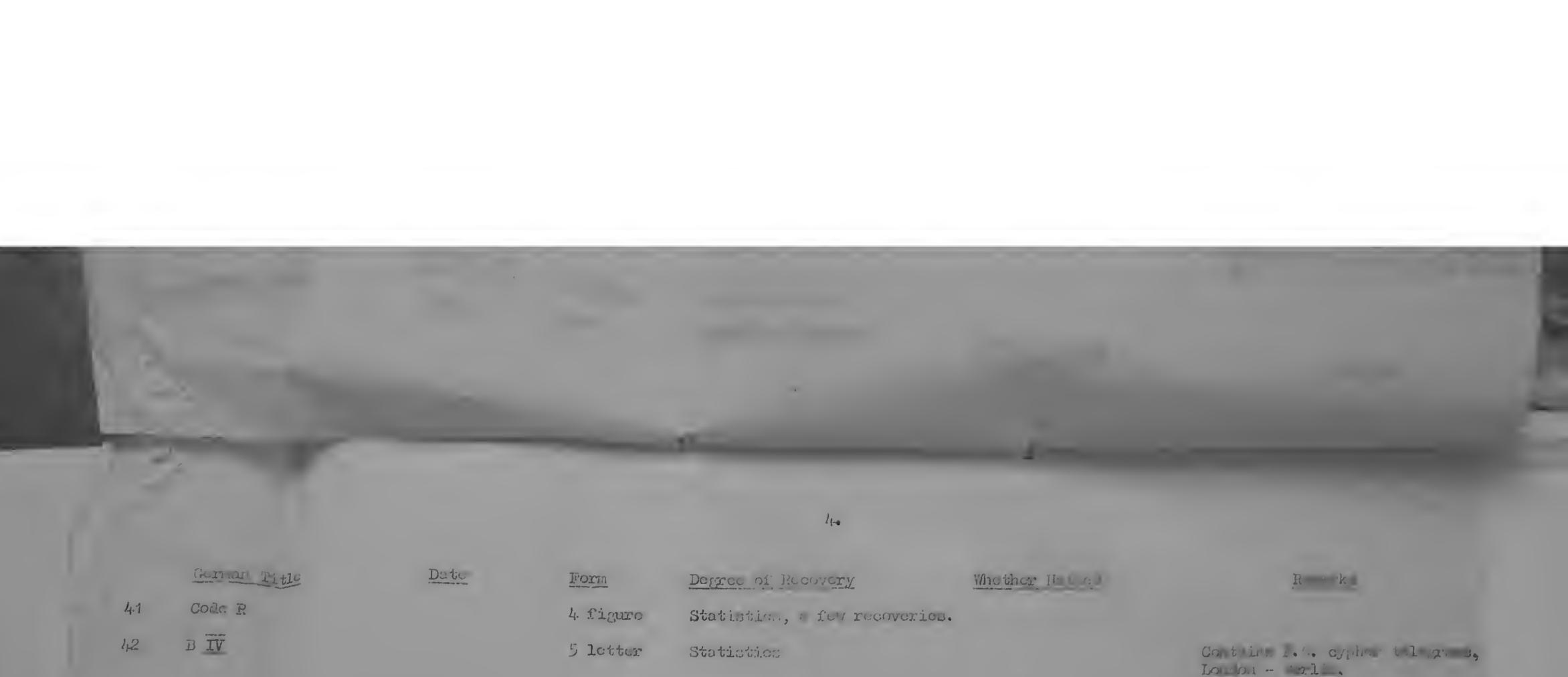
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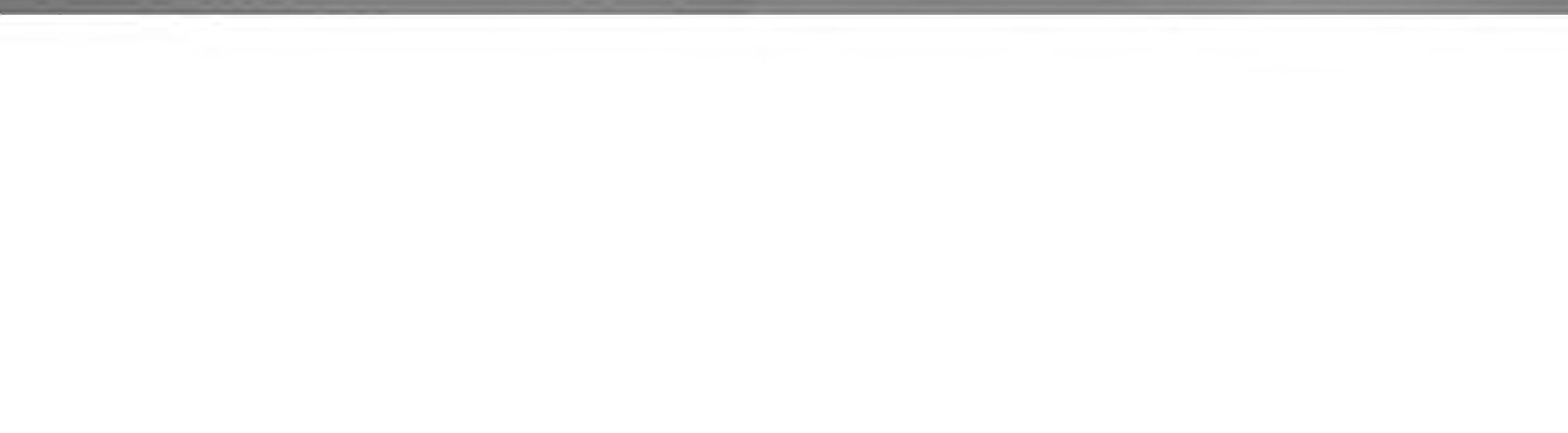


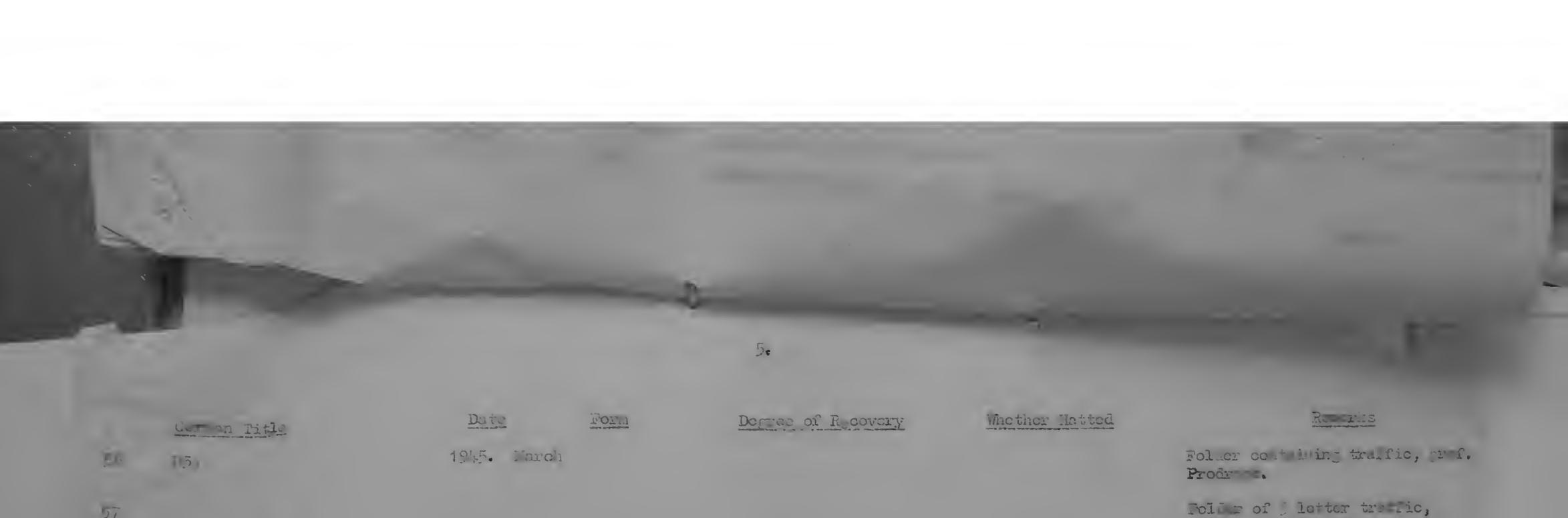
		cover) 1918.				
29	II		4 figure	A few statistics	Хев	Contains a few intercepts Munich, Odesse, Vilna, Prague, Eucharest, Prodrome London, 1920.
30	Code Q		4 figuro	A few statistics	Yes	Contains a few telegrams London - Berlin.
31	Code O					Folder of telegrams 1919/20.
32	Cuile Q		4 figure	A few statistics		
33	W					Folder of F.O. telegrams, some decyphered, dates 1924.
34.	W					Folder of 4 fig. F.O. cypher telegroms, 1921/22. K.B. "Abyssinia" in ink on cover, obviously not related.
26	(rca_rulior					4 fig. F.O. cypher telegrams.
		1916		A few statistics shoets		Decy, her F.O. telegrams.
36	C X 2		l. figure	A few statistics		Contains a fow F.O. telograms.
37	X		4 figure	20/ statistics	Тев	Contains 2 F.O. cypher telegrams.
33	2		4 figure	A for statistics		
39				1 or 2 recoveries	No a	
40.	zlluži Prova		5 figure	1 1)1 = 1 = 0.0000 = 0.000		
	-o.i.cl (Ditish ) fi her in 1 cl)					Pleas. turn over





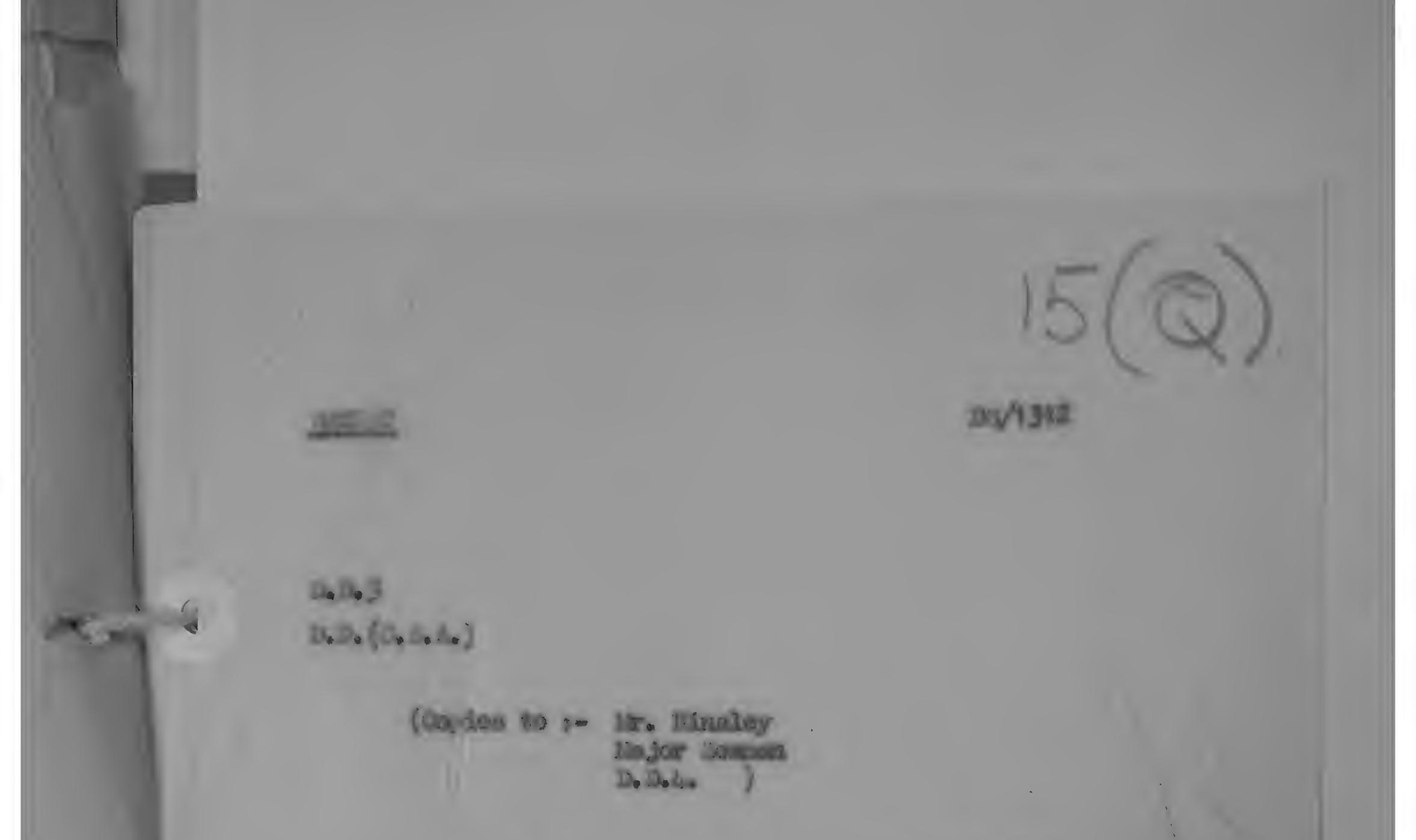
			4 statistica of	Statistic, a lev recoveries.		
1,2	BIV		5 lotter	Statistics		Contributed cypher til 12: 3, Louisa - 121.
4.3	an <u>X</u>		5 letter	4.0,2	376)	re cilled liste conr: 1302 (cconomic).
44.	B15 (?) or 1 (?)		5 letter	Statistics		
4")	L C.L., rephor, In lish o nor X.		4 figure	Statistics, a few recoveries.	Хов	A for R.O. tolegr, prtlj
45	126/1. Coutl Africa.	1935/39				Dolder of 9 letter tr ffic.
47	127 South Arric.	1938/1939				older of 5 letter tr ic, leo contrins a few crypt- nalytic work- ot.
43		1931/32				Jol r of traffic.
49	E Prin 2	1917/18				Polder of L.C. 4 fill. 1 or a
-90	C.		4. Li_ur	Statistic		
51	La citle					Jold o Join or i for 722 (?).
52	L CALINER		4 Lieure	Vory for montains		n
53	¥			soulistic, coma comun.	You	
54	100	1926/32.	1 1 1 × r			folge of Line ratio.
	1992	19 !				ol r containing r ffi.; ix. Clri . Please turn over





			Foll r of j letter trailie,
57			Progrand in la sol
58	11	1939/:	Inlice of trultic, form here d Oni IIIb. Copelris. 7.1.
			Notos's t of I Decyrlicr 1936 Co.: No. 673, in leverarch folder.
ú	$\frac{n}{(1)} \frac{1}{1} $	191	Folder of partly dec her d truthic.
1	loolseloge cut int T.O. opplar circul I . L.M. der pl . E.C. 155/5/30 l bot of Laicetors, il dia c.t l' (C. L.L.)	Oct. 31/1939	
2	Told - Lizin Anto- - t - m . 9 xL - 1 .		
13	n mili mili . celo, den n Fjl.c.	Sept. 1, 190	<u>G. C. C. S. (S</u>
14			
	Normalis, me indirection normalis, rolas for iss containe Treise I, I		





with reference to TRAN/1-52 - the full Asterrogetion report on comburs of FRA 25, Assertigos and, would you please let up have the neares of these prisoners when you wish still to be detained for possible further interrogation.

that the following persons of FOLS 33, new at Meriagy, should omidien to be from for the time being pe

KINGATER PARTIER SCHLARPPINS KARTER Prin, MARTIER Frin, MARTIE

Torizint, Polish and Elevenie countries, the root just heat in Science optical by us, is now hold at Hertery with the root.



### CO NFIDENTIAL

Subject: Eurg personnel To : Mr Hinsley, Cmdr Dudley-Smith 11 July 1945

I have told Lt-Col. Johnson that if Marburg will hang on to the following persons for the time being, SSA has no objection to the release of the others.

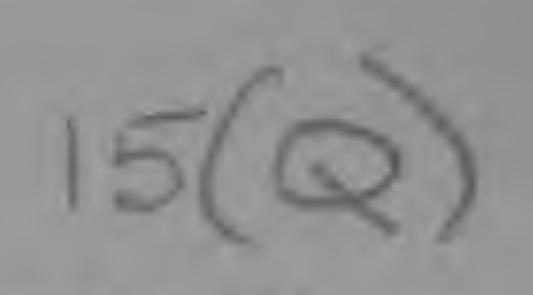
> Kunze Paschke Schauffler Karstien Frln. Friedrichs Frln. Hagen

tres

John N. Seaman Major, Signal Corps







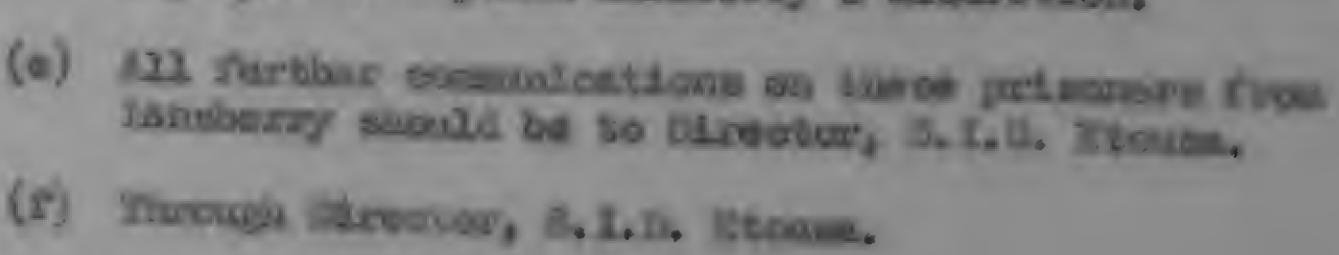
### 11ta nely 1943.

Dear Johnson

Hell has recently told us of Capt. Lansberry's difficultion of Marburg, which I understand he explained to Colonel Elemer personally and suich I remember you raised with as maring your last visit have. I attach a copy of a memoranham on the subject which Lansberry manded to Bull in Marburg, and would like your help on the several points connected with it, as estimat below.

Since Bull's visit, further developments have occurred which make as agree to release all Harburg personnel encort 6.

- J. With reference to the resulting 6 personnel who are to be kept at Marburg, I wonder if you could arrange for Gelenel Mober to reply as follows to Landburry's letter, if you and he agree?
  - (a) They are to be kept unler guard until further instructions from birector S. I. N. Stouss.
  - (b) They should not be permitted to circulate beyond the inmediate vicinity of Marmarg.
  - (c) There is no objection to the personal effects multioned being fatched by friends or agents of the owner, provided:
    - (1) timt mich friends and not themselves un or detoution,
    - (11) the offerin are not now situated in the momentum
  - (a) There is no objection to these persons being identity employed at Captain Lanseerry's discretion.



with reference to query (g) of Landberry's letter, we do not know the answer hare. Ferhaps you can advice him on this point?

I understand List, both Lansberry and bull, when they can colonel licher, reported that key were construed as to the rich at prostil we standing to faitell oreign brillor Archives ton stored at belies sarours, There relives, as you know the prosent under exploitation by a joint State Department Parel 1 Lafice Telle They estimate uit blacks will also the time year and iron with I am able to publicity one to the to tonce in darphy the window one might signt craily see to there and to this research. Conde Colonel Bieser unilsence / : authorities concerned to provide a boutor guard, as it is leave there these arounds will contain unterial of mutual interest to us? Whit is really required, I sailer, is a per ament body of troops (pay of Cereany strength) to gate reveral exits both above and underground. It is deal able that these aroops curald pet to know their delias therewoly. The present Arrangement is one by which, no nooner have sentrice been posted, than they are relieved or recoployed and concernantly save no opportunity of learning the terrain. Is could be man grateful for anything that you could do in this matter.

Chairman TICOM.

Lt. Colonel Johnson,

# M. S. J. L.D. BET.

Copies to:-Lt. Cdr. Innoon Major Seamen Odr. Bull Cdr. Bull Cdr. Bacon

# HEAD UNITERS

ATTO 655

- SUBJECI: Disposition of German Hationals.
- 10: Commuder Mull, Royal Lavel Heserve.
- 1. On 9 May 1945, this detachment received a shipment of Cernan Mationals under command of Major Mars the ware endered to be housed and fed by the farburg farguments ter and to be checked for security purposes once weekly. They nere to be held until ordered released or otherwise disposed of by Lt. Col. Feff.
- 2. Since that date other shippents have been received well there are at present 82 persons here in this entegory.
- 3. During this period no further instructions of any kind have been reacived concurring the disposition of these parents.
- 4. It is requested that instructions be issued in this cornection covering the following points:
  - the these persons to be kept many providing assister.
  - 6. Can they be permitted to simplifie beyond the include vicinity of Lerbury?
  - c. If they are to be retained here and provision can be made to get the personal effects of the last 22 and arrived ununnounced in advance and with little begange sites = plane trip from England?
  - d. Con these persons be used for much projects as sont

idle.

on mich higher headquarters can this detectment commicate should an energency arise?

. Through what chevels will instractions be received.



groups next here by various annies?

E. The is responsible for any medical attention required by them?



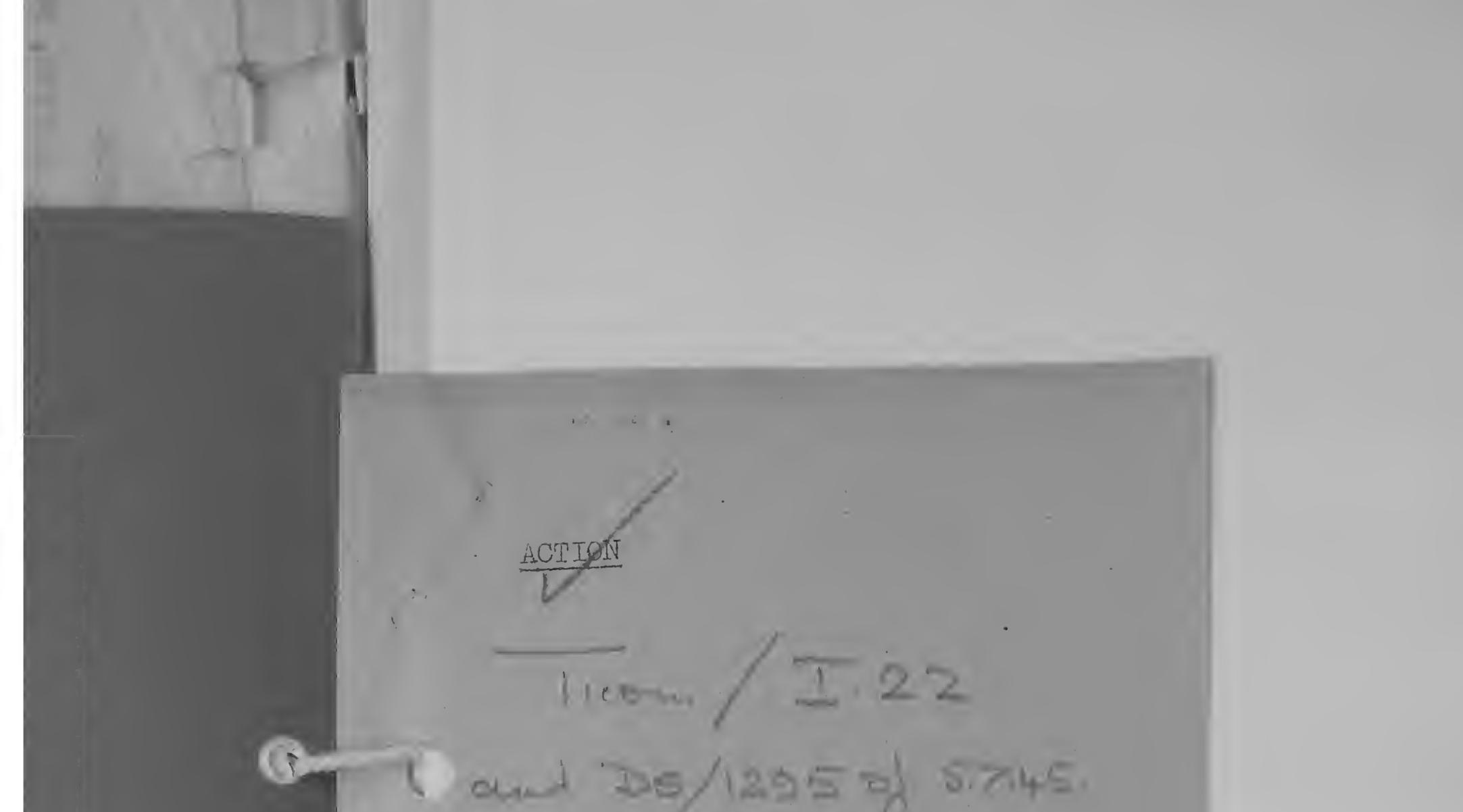
### PUBLIC RECORD OFFICE

Group/Class HW40 180

TICOM / D-3 revained under Seituri 3(4) D'the Fublic Records Aux 1958

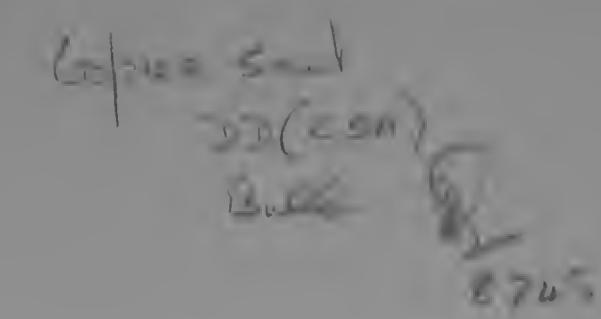
(Signed)

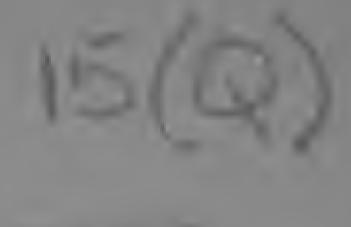




and IE . 27 Frankein Hogens Pere 25 Dr. Sala saturial. sto substanding WE Ender 6.745 INFORMATION Blake 13-19 8/7 Campbell Oliver Peto Rolf DISPOSAL







TICOM/I-27

TOP SECRET

in the s

### PRELIMINARY INTERROGATION OF FRAEULEIN HACEN, HEAD OF ENGLISH SECTION OF PERS ZS, AUSWAERTICES AMP

Attached are notes on the preliminary interrogation of Fraculein Ursula HAGEN of PERS ZS, German Foreign Office, carried out at the Public Security Office, MARBURG/LAHN, on 23rd June 1945, by Cdr. G. Bull, R.N.V.R.



<u>JUCOM</u> July 1945

No. of Pages 1

### Distribution:

British Director D.D.3. D.D.4. D.D.(N.S.) D.D.(N.S.) D.D.(M.W.) D.D.(A.S.) A.D.(C.C.R.) (2) Lt.Col. Leathem

### TICOM

Chairman S.A.C. (2) Cdr. Bacon Cdr. Mackenzie Cdr. Mackenzie Cdr. Tandy Lt.Col. Johnson Lt.Cdr. Manson Lt.Cdr. Manson Major Seaman Lieut. Manson Lieut. Eachus Lieut. Eachus Lieut. Vance Coptain Cowan Lieut. Fehl TICOM Files (2) U.S. OP-20-G (2) (via Lt. Penderg ()) G-2 (via Lt.Col. Hilles) S.S.A. (2) (via Major Seaman) Director, S.I.D. ETOUSA (2) (via Lt.Col. Johnson)

Additional S.A.C. (1 extra for Cdr. Bull.) Ursula Hagen, born Perlin 23rd March 1901, joined Auswaertiges Amt 1st October 1922. Had a good knowledge of English and preliminary training consisted of studying of code messages already broken and cryptographic material available. At this time work was principally concentrated on a non-hatted 5-letter code [G.T.C.?] and a 4-letter hatted code which changed after about a year ['R' Code?]. Later on work was started on Spanish and Portuguese Codes.

TOP SECRET

2. In about 1939, Fraeulein Hagen took charge of the English, Spanish and Portuguese section of the Department. During the war no Cyphers were solved but work was done on a captured Interdepartmental Cypher on a depth of 5 or 6. Believed that neither OKW nor Forschungsamt were successful with Diplomatic Cyphers although they were attempted.

3. The three departments worked on British Codes and sometimes 2 copies of the same telegram representing independent solutions, would be forwarded to the Secretary of State. Although the bulk of the material was of no great importance, the traffic was considered of sufficient interest for the work to be kept up. Perhaps one telegram a week would be of considerable political interest.

4. Fraculein Hagen had only come out of hospital two days previously and explained that as a result of her illness her memory had been considerably affected and she was unable to recall details of the important messages which she had mentioned. She did, however, instance a telegram from London to Washington in January 1945 which referred to destruction of copies of the Atlantic Charter. This was considered of great interest but was transmitted in 5-letter code.

5. The 4-letter code was read currently in 1945 as also was the Inlian Code [probably 'Q'].

6. At this time 3 separate 4-letter codes were being worked on and broken simultaneously. The department reckoned that it took about three aparts to reconstruct one of these codes.

7. The plain language, i.e. solved, copies of code telegrams submitted by the department carried no secrecy marking but raw material was invariably marked Geheime Reichsache.





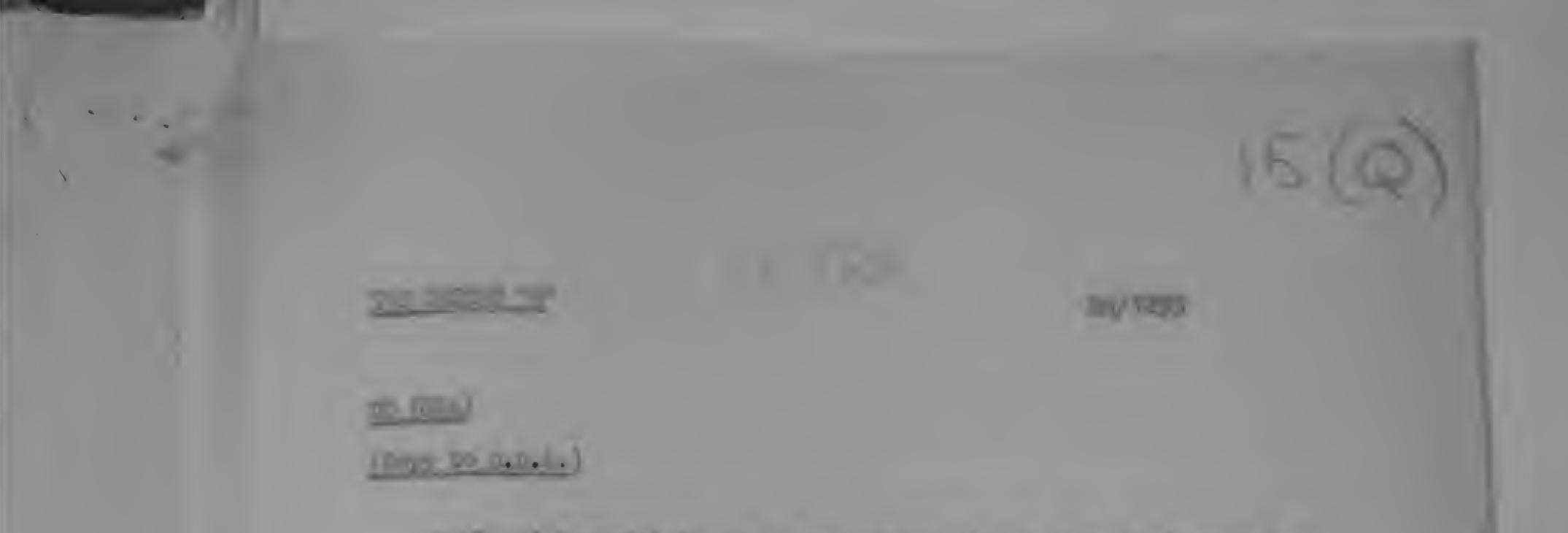
Please amend classification of second and following pages:-

TOP SECRET "U".

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town housed in the pass nogy or control, the cheed repair as And Andrews Address of these littless and there are an entry the second statements

when the spin phices of the height of the location property the Indextthe Association of this Investment live throw the particular to be the Association by the later. tend with make heatern, coming out 12006 of high may, my 1279 of 2515, may, and DU/ 1225 DE Stat Hay. DI/ 4257 OF 104% June and Day (DG2 OF WARE Form The also swillingst.

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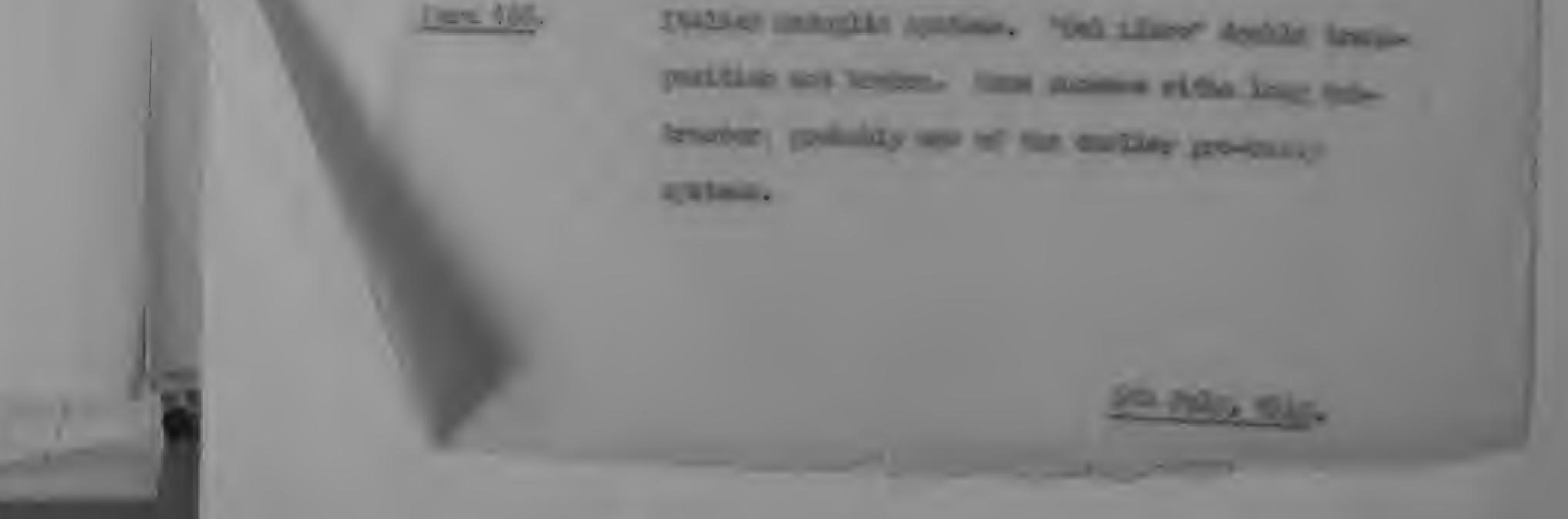
5-5

Trainmont him monounk of the 760 months, the relieving petrons and the Increas 133: 134. Solution of State Department Strip "02". The second 25.2 bot: annihoy of second elimination. Trans they that. I concertain on this is no/ 1804. then distant a party

> Live used and the willowing oughows white and the crumilized reports 16 microsid be possible for description within conversioner weeken Long ashiermotors tadde our more coursell. To our doub mu hintle book mu day which a o ..... On the harbor part of 1944.

"The residences of this Part. Sublicestron systems, in that is grown emerging the present that the market of the second the second to be and the second to be and the second to be a secon dought of Jacobsony Street, State, and Made on Allonger. aspropheteria and chartent.

no caution digiteration spatiant and an easily structure advices the fame inter-



FM06-351-

TICOM/ I-22

TOP SECRET 'U'

### INTERROGATION OF GERMAN CRYPTOGRAPHERS OF THE 'PERS ZS'

DEPARTMENT OF THE AUSWARTIGES AMT

This publication is a report on the interrogation of twenty-one cryptographers of 'Pers ZS' carried out in UK at seven meetings during May 1945. 'Pers ZS' worked only on diplomatic systems.

### TICCH 2 July, 1945

Copy No. 1 No. of pages: 31

Distribution British 1. Director 2-8 D.D. 3 (7) 9. D.D. 4 10. D.D. (N.S.) 11. D.D. (MW) 12. D.D. (A.S.) 13-14. A.D. (C.C.R.) (2) 15. Col. Leatham

U.S. 32-33. OP20-G(2) (via Lt. Pendergrass) 34. G-2 (via Lt. Col. Hilles) 35-36. S.S.A. (2) (via Major Seaman) 37-38. Director, S.I.D. ETOUSA (2) (via Lt. Col. Johnson)

TICOM

16. Chairman 17-19. S.A.C. (3) 20. Cdr. Bacc. 21. Cdr. MacKenzie 22. Cdr. Tandy 23. W/Cdr. Oeser

#### Additional

- 39. Dr. Forster
- 40. Dr. Pickering
- 41. Lt. Col. Evans
- 42. Lt. Comdr. Mansen
- 43. Major G.W. Morgan
- 24 Lt. Col. Johnson 25. Maj Seaman 26. Lt. Eachus 27. Lt. Vance 28. Capt. Cowan 29. Lt. Fehl 30-31. Ticom Files (2)

### Interregation of German Crystoursphers

of the 'Pers 23' Department of the ius Firtices int

Seven meetings were hild at which 17 male and 4 female cryptographers were interviewed. The attached Minutes provile a record of the proceedings.

TG -BCFET

The interrogators were concerned to conceal their own knowledge of the details of the subject and of any specific German or foreign system. The Germans were co-operative and ready to answer questions and volunteer statements.

We did not question him on this subject nor did he speak about it himself.

Interrogation was allowed to develop naturally from such coneral questions as "That was the nature of your work?" Or questions were put on the captured material we now hold. For example we raised the question of Swedish usage by referring to the Swedish-made Hagelin Machine found among the 'Pers ZS' papers.

The general impression of the party as a Cryptographic Unit was that it was competent but limited. It was seriously handicapped by lack of staff. Hollerith machinery was not introduced until 1942 and then only in small quantities and rather by chance than considered policy. Little or no encouragement came from above and neither directives nor pressure to complete tasks were forthcoming. Liaison with other German Cryptographic Units was very bad and with Allies of Germany non-existent. They were frightened by Machine Cyphers as a practical problem although some theoretical work had been undertaken on the security of such cyphers. They seemed to have relished their low-grade successes unfully and to have been too ready to reject as impossible - and then to forget the high-grade systems beyond their powers. The senior officers were convinced of the security of German high-grade systems. Virtually no intelligence work was done on the contents of troken measures.

The work of 'Pers ZS' was confined to diplomatic systems and did not include Service Attaché Cyphors. The OKT and Confine Forschungsamt also worked on Diplomatic systems and the rule i as of all three stations were marked by jealeusy rather than y co-operation.

More can be learned of the German attack in Lritish Tiplematic Systems from Frl. Hagen who is now ill under supervision at Morium, and we recommend that she be interropated.

One other member of the party still runting to be interrorated. This is Dr. Helmut Grunsky, a mathematician, the is at around in hespital.

Photographs and finger-prints for 11 these interpreted so filed in C.C.R. Suction G.C.&C.G.

4th June, 1,45

## 9th May, 1945 at the Gratery Fehrel. First Mustin 10 11.30.

Present: Brigdier Tiltman (in the chair). Frefess r Vincent C-1. Genic U.S.i., Lt. Toial U.S..... Ir. Frat r and later: Professir Dr. Thirlad.

1. It was surved Leftre the multing d. to theat general .....tters mlr b. to interview Pr fees r I intel al r. first.

Professor lichrigen was then called and askel to oketch the 2. organisation to which heldlingel. The male older to him Mint the meeting had neither the fusire har the meet the intimite his or his collectues into importing information actingt their will. He replied that he and his colleagues were repared to take a professi nal basis of 'exchante of r sults' intugin it tos clur to them that the exchange would necessarily be nesiled.

3. He gave the official designation of his reanisation as Department 'Pers Z S' of the Auswartiges int. It hal Inmerly teen known as the ! Chiffrieralteilung' tut later the order 'Fors' F! was adopted. The organisation was concerned with ory tears by m foreign diplomatic colles and cychers; no military or other material was handled.

- I -

There was another demartment if the luswirties interior 4. dealt with the production and security of Gorman diplomatic system, but any liaison between it and 'Pers Z S' was purely informal. This department had remained in D erlin until the end,

The head of the organisation was Gesanlter SELCHCU. The 5. three sections of which it consisted were under

> Oberregierungsrat SCHLUFFLEL Dr. F.EOHE Dr. KUIZI

Dr. Kunze was an tld hand and teen in the premiestin for 6. 27 years. He was responsible for the intial meaking of liticult systems, recycherments etc. His staff consisted lar ly f mathematicians. Hellerith machines had not been availed to bit. until 1942 but by the end he had about 20 machines. This was thought to be due to the personal interest of libertry.

Dr. Easchke was responsible for bolinuiling if the start the 1. His section was preanised by countries and lump: ......... carriel tut such liaison as was done with the line cit.

8. Ole Echaufflur: a moth antician. A relief . schoolmaster, was massil in the last war at a round the ja found scholmest ring tor mach for him. In soil the found the sacrily aftermarie as a then ticita. The bart, in pulse it Fir Eastern language, in mich is head lind. I fill the he clited a rivet. rifect which display the his he his, cullet 'Pourir- r. ... S from i and . . . . . . . . . . . . . . mill organ regulo and liter. (General: Debut Cena e ag Mas à caments o nacin d'anti-le l'allers o capter d'alle de de la del Lachine. Tith this in the set of the set of the set of f the privile light and the second of the seco Price animus mighter a price atore inclute: so gradet Soloiter. But we he il n's au arst at soot. A at correction it mas theurist in relations in section.

Thur - a very little line - this thur proposers die unteres; ÷. nothing was known into relation with Persign days to react.

10. Prefessor Rohrbach was at pains to explain his own position. He had a chair of mathematics at Prague, which he held concurrently with his app intment with the Foreign Office, travelling often back and f rth. He had chanced to be at Purgscheidungen when the place was overrun. The senior members of the organisation had banickel in the absence of selehow, and he was the only person who hal had the presence of mind to take any common sense action. He had thus become the leader of the party. He was careful to point out that this was not due to any position he held within the organisation or to any superior computence he might have as a cryptographer, but purely to force of character. In discussion of question of cryptographic letail he wished to be regarded merely as a member of Dr. Kunze's section.

11. The gentlemen appeared to be as comfortable as was consistent with the circumstances, but were concerned about one of their number, Dr. GRUNSKY, who was suspected of having acute tuberculosis. This had been disc vered the day bed re they left Germany. It was arranged that he should have a medical examination. [Comment: he has since been admitted to hespital and was therefore not available for interrelation. He is a member of Dr. Kunze's section.]

SECOND MEETING (At 3 o'clock on 9th May 1945 at the Oratory School)

Present: The foregoing and Dr. Kunze, Dr. Paschke and ORR Schauffler

12. The basis on which the meetings were to be conducted was explained to the new arrivals. The principle of 'one-sided exchange' ('einseitiger Austausch') was wreed to. [Comment: The interrogators felt much obliged to Lt.Col. Evans who appears to have been originally responsible for this highly diplomatic formula.]

13. <u>Dr. Kunze</u> was asked to sketch what in his opinion the principal successes of the organisation had been.

14. He stated that he himself had been employed on similar work by the High Command in the last war and mentioned success with Dritish naval cypher at that time.

15. In 1924 he had broken a French system of bigram substitution using 100-figure bigram tables on a 4 figure book.

16. Russian systems had been read at that time but, as Dr. Daschke observed, after the appearance of the British White Paper in 1927 the Russians changed their systems and discouraged circular telegrams; there wis then not enough depth.

17. <u>The systems consisting of subtractor tables in a 4 figure</u> back were mentioned as having been solved at about that time.

18. In 192, or 1930 they become to read <u>Jugoslav</u> traffic om loying bigrammatic substitution on a 5 firue book. It first the recycherment was applied horizontally, later vertically. <u>Manchurian</u> systems were mentioned, but conversation tranched off to the subject of Japanese. At this point <u>ORR. Schauffler</u> also took part in the conversation.

19. <u>Japanese</u>: Until 1934 1 vor grade Japanese systems were read currently. After 1934 the Japanese went over increasinally to the use of a machine. The moral effect of the machine on the party had been considerable and it was some time before they discovered that it could theoretically be broken. They did not in fact read any traffic until September 1938. They then read the machine currently until February 1930 then it became unreadable owing to difficulties with the wheel turn-over [Comment: The use of a differnt machine loss not seem to have been considered]. In the meantime they read all the back traffic as far back as 1936. They continued to read the lower grade material 20. Chinese: ORR. Schauffler had worked on Chinese systems f r 20 years, part of the time in conjunction with the colekratel linguist Legationsrat Krebs, whose pupil he considered himself to be. They read 4 figure and 4 letter traffic until 1930. At the beginning of the war Chinese was taken up again in conjunction with the O.K.W., which supplied personnel. It was agreed to discuss Far Eastern traffic in detail at some later meeting.

- 3 -

21. They handled no attaché traffic, either Japanese or any other, Dr. Steinberg of the O.K.W. was said to have worked on Japanese military attaché traffic.

22. Dritish: In 1939 Kunze was approached by the Luftwaffe for assistance with British weather cyphers. He was successful with these.

23. In May 1938 they began to break a British diplomatic system. In 1940 to 41 the tables ran for three months, so that there was considerable depth [Comment: Uncertain whether these two sentences refer to the same system]. They found however that the labour involved was such that it was too much trouble to read the material currently without machines. On the introduction of 'special' keys the investigation was discontinued. A written report was available on this subject [Comment: The circumstance that this investigation was broken off in 1941 and that Hollerith machinery became available in 1942 may be connected, though this point was not raised at the time. They <u>appear</u> at all events to have had no further success with British systems. It was thought best not to press this point for the time being but to discuss it in detail at a later meeting].

24. In 1943 the <u>American</u> strip system No. 2 was solved, but with considerable time lag. It involved a great deal of time and effort. A machine was designed to eliminate this, and  $D_r$ . Kunze thought that it must be with the machinery sent from Hermsdorf in three waggons, only one of which had arrived at Zschepplin. He thought that most of the workings on this system had been destroyed at Zschepplin.

25. Italian: Dr. Paschke was asked what success he had had with Italian systems. He replied that he had been instructed in 1935 to devote special attention to Italian and that the results had been the best imaginable; they had read everything ('Den schönsten Erfolg, den man sich denken kann; es wurde alles gelesen'). In 1942-43 work became increasingly difficult: the Italians increased their subtractor material before the collapse and employed bigram substitution over a subtractor over a book. If they had changed the book, the traffic would have become 'impossible' to read. After the collapse they read a Government code 'Impero' recyphered with figures from the encode, with little depth. Later the Government systems were not read for lack of depth, but it was thought that they used double transposition. The Me fiscists had usel a 5,000 figure subtractor; the peculiar systematic .rrangement of the figures in the subtractor assisted solution very much. In the last three months the Neofascists had used unrecyphered books which very easily read, and an alphabetical book with a short subtractor called al 1.

26. <u>Captured material</u>: Then asked what assistance they had had from captured material he said that it was unwelcome and seldem useful. They find never had any liais n with foreign (e.g. Finnish, Hungarian or Japanese) cryptographic organisations and had never heen visited by foreign cryptograthers.

27. Note: All four gentlemen seemed to be fully e operative, includ-Dr. Faschke, contrary to reports from the field. They were concerned about their security, as they had no privacy and would in the long run find it difficult to keep the nature of their work secret from their fellow internees. It was suggested that they might be prepared to write reports on their activity, to which all replied that they would be prepared to do so but their present eircumstances were unsuited to 'scientific work'.

The meeting was adjourned.

#### THIRD MEETING

- 4 -

Hold at 101 Nightingale Lane, Wandsworth on 10.5.45 at 12.15

Present: Professor Vincent (in the chair), Col. Cook U.S., Lt. Fehl U.S.A., Dr. Forster, Frl. Friedrichs and later: Frl. Dr. Pannwitz, Frau Dr. Hühnke, Frl. Schrader.

28. It was decided before the meeting

a. to discuss general matters only b. to see Frl. Friedrichs alone first.

29. The basis on which the meetings were to be conducted was explained to Frl. Friedrichs, who agreed. The conversation was conducted in English.

29. Frl. Friedrichs stated that her duty was decypherment of Bulgarian and other Slavonic cyphers. She had, however, from time to time been loaned to other sections. For instance she had been loaned for a time to Dr. Kunze at the time when the American strip system Number 2 was being broken. She had maintained a personal interest in the American strip system and had clearly enjoyed the work very much. She mentioned Herr Zastrow as an authority on U.S. systems.

31. Her approach to the work as a whole was a professional one, the work gave her pleasure and she felt a proprietary interest in it.

32. She touched on the position of women in the organisation. She said it had been a long fight to obtain for women the same pay as men, but that that had finally been achieved, but, though they received the same pay they had not the same status. At the beginning of the war a great many women had been engaged somewhat to the chagrin of men who had not been used to working with large numbers of women. She instanced the case of one woman who had reached a senior position in the organisation, Frl. Hagen, for whom she evidently had a great admiration, and whom she characterised as an extremely able cryptographer. Her duty was primarily British cypher systems and the systems of the Spanish and Portuguese countries. At the time of their departure from Germany Frl. Hagen was in hospital with a skin complaint.

33. When asked whether she knew of any connection that the organisation had with similar organisations outside, she answered in the negative. Such liaison as was done was carried out by Dr. Maschke. She gave the impression that, far from these having been any coordination between the various cryptographic organisations, there was a considerable feeling of rivalry.

34. The general immession that she gave of hor organisation was that it was a small, self-contained show, functioning entirely by itself, that it was starved of personnel and equipment and that little interest was taken in it higher up. \*

> \* Total personnel she thought was about 120, of whom 10 were employed in the flowonic section.

35. The Hund of the regenisation was a competent administrator who understood little about cryptography, callwas content to larve the specialists to run their offnirs as it seemed bust to them.

36. Then asked whether there and over been any ovidence of the reciation of the work done in the organisation, she redied that there had been none. From time to time, copies of the telegrous they issued had been returned to them bearing a starp indicating that they had been by the Führer, otherwise no indication of the importance attaches to this work had genetrated to the level at which she worked.

37. No intelligence was extracted from the material by them, except such as was necessary in order to enable them to continue reading the traific. There was no sense of urgency in the office, decymered messages were not transmitted by teleprinter to their recipient.

36. In the matter of translation of decyphered texts, the organisation had established rigid rules and in general favoured a literal translation in contradistinction to the practice of the OKJ, which was always concerned to round off and polish up the translation only make it flow, usually leaving out corrupt groups or obscure passages.

39. There was little encouragement given to communication of vesults inside the organisation by junior members, who were encouraged to mind their own business. In general such exchange of results as was scried out was done on a purely informal basis as between friends.

40. Frl. Friedrichs was concerned about the possible fate of the non. She herself had been about the world a fair amount and would find it easy to obtain different employment after the war. Most of the men were already in late middle age; they had done nothing but cryptography all their lives and had no other interests and she did not see how they were going to support themselves without it. [Comment: No statement was made by the interrogators in response to this hint regarding the eventual disposal of the members of this organisation.]

41. It was felt that little more of figeneral nature could be licited, so that it was feeld to call in the remaining Indies, From Dr. Tühnke, Frl. Dr. Pannwitz and Frl. Schrader. A short discussion of personal matters was nell with them. They were concerned about the fate of their mon-folk and wished information to be given to their relations in Germany that they were safe and sound if this were possible. It was pointed out that the members of the meeting had as power to do this but mere prepared to transmit such requests; they could, however, give no quarantee that engthing would be done. Henc of the ladies appared any the worse for their two days' sejourn in Holloway trison.

Internediate K sting; held at 101 Hightingale Lane, Manussorth on

Present: Dr. Forster; Frl. Priodrichs, Freu Dr. Hühnke, Frl. Dr. Frankitz 41a. The real object of this special s to obtain information on the whereabouts of Frl. Hagen, the specialist on British all Douts Lacriorn systems (see pres. 32), with a view to evacuating her to a rear real under British or U.S. control. The estensible object was to bring Frl. Friedrichs' Lugrage, which had been delivered at the Gratory School in error. 41b. Before the meeting took place, the interrogator was met, on arrival in the German detainees' wing by a young German woman who did not belong to the party he intended to see and was apparently a new arrival. She said: 'Wer sind Sie?' and got the reply that the interrogator was looking for Frl. Friedrichs. She then said: 'Sind Sie vom Auswärtigen Ant?'. The interrogator denied any connexion with the Foreign Office.

- 6 -

41c. Frl. Friedrichs and her party being assembled in a separate room, Frau Dr. Hühnke said that Frl. Hagen was last heard of in the German military hospital at Zschepplin. This hospital was housed in the Schloss, the same building as was occupied by the 'Pers.ZS' personnel. She suffered from 'Gesichtsrose' (erysipelas) and when they had last seen her was too ill to be moved. She was presumably still there and would, they thought, be glad to be evacuated out of the way of the Russians. [Comment: this reason for evacuating Frl. Hagen was not suggested by the interrogator.]

41d. When asked to describe her they all agreed that she was tall, fair-haired and anaemic-looking, walked with a characteristic stoop and had a high squeaky voice. Age about 38.

41e. Frau Dr. Hühnke was very worried at the probable fate of her mother and infant son Horst in a Russian occupied area. The interrogator did his best to calm her.

41f. The meeting was adjourned, its object achieved. The information was telephoned from Nightingale Lane to A.D.(C.C.R.) and TICOM representatives. [Comment: Frl. Hagen has since been evacuated from Zschepplin to Marburg where she is in hospital under supervision.]

Fourth Meeting; held at the Oratory School on 19th May, 1945 at 11 a.m.

Present: Prof. Vincent (in the chair), Major Seaman U.S..., Lt. Fehl, U.S.A., Dr. Forster.

and later: Dr. Kunze, Professor Rohrbach, Herren Rave, Hierer and Grosse.

42. Dr. Kunze and Professor Rohrbach were called.

43. When examining the captured material it was found that the most recent work reports were missing. The gentlemen were asked what the explanation of this was. They replied that all the documents of the research section had been destroyed at Zschepplin.

44. Dr. Kunze was then asked about the machine, mentioned at a previous meeting (see para. 24), for solving the American strip. This machine was for decoding, not for analysing. Double-length strips were hung on lugs attached to rollers. The cypher text was typed on a machine which unrolled the strips so that the cypher text was visible along the bottom of the window. The clear text was then visible on some line higher up in the window. The clear text was then visible on some line higher up in the window. An electric device had been designed to illuminate the frequent clear text letters. This was abandoned, as it was found more convenient to print the common letters in heavy type on the strips and read off the lines containing the restest number of letters in heavy type. The strips were made 52 letters long and were arranged in a bank of 15. The machine was thought to be with some Hollerith machinery in two wargons which had never arrived at Zschepplin. [Comment: see para. 24.]

45. With respect to the Hagelin Machine found among the captural interial, Dr. Hunze said it was thought that Routania, Saudon and Pinland usel this machine. He traffic had ever been selved for lack of time and personnel. He had heard it said that the Hagelin was also used by the French and Alerican armies. The specimen mentioned and been acquired by the organisation for general investigation of its properties and had never been used to decode anything. [Comment: the number on the cyclomotor of the anchine is only 295.

- 7 -

46. Dr. Kunze was then asked about the Japanese michine traffic discussed at a previous meeting (see para. 19) and whether a machine had been constructed to decode it. He replied no, that they had been able to achieve the desired result with paper models.

47. Hojer Station then asked about the purpose of a number of rotary switches foun' mong the captured material. Dr. Munze said that he was not quite sure what switches were meant but he thought that they were cartured material ('Beutematerial') sent to them 'in case they come in useful', as electrical fittings of this kind were in short supply.

48. Scandinavian systems were next discussed. No material had been read. Swelish traffic, thought a priori to be Hagelin, was investigrited for three months in 1941. At first the machine had 25 letters, then after two months a machine with 26 letters was introduced. In August 1944 another investigation was begun, in which Professor Rohrbach participated, to determine whether the indicators fitted the Hagelin pattern.

49. Asked about Turkish systems, on which there was a noticeable lack of material among the exptured documents, Dr. Kunze stated that all the Turkish material had been burnt.

. 50. Dr. Kunze was then dismissed and Messrs. Rave, Hierer and Grosse were called. Professor Rahrbach in the meantime explained that these gentlemen were of a definitely lower grade and had come to 'Pers 2' to be trained. He spoke of them with obvious distaste.

51. Hessrs. Rave, Hierer and Grosse were all employed by the O.K.W. milloaned to 'Pers ZS' in December 1945 to assist with Crimese un. Japonese traffic.

52. Rave had joined the O.K.T. in October 19/1. He was fire at Tirpitzufer 72 - 76 until it was bombed out, then at Im Del, millin He had got his friend Hierer into the O.K.W. because of his Mr. 1. 1ge of Chinese. Groute had been employed on Italian at the O.E.M. on and later transformed to Chinese. It fil not appear that a hel rap knowledge of the latter language.

53. Rove, the spekeemon of the group, nove a detail of the ryraisntion of O.K.W. Chi. The herd a process Heref, when we collieved in 1963 by Oburst Hellur. The sections where the sections on the drucking, under Ministerialrat Penner; Interectain, Inielli cace, under Hourst Rulkstein; orgate graphic research un or Dr. Metteumin; an 171, the Cortment dealing with administration a cors anel.

54. Rave and the others had worked in Funner's costion un 'er Oltrieutnant Aller. This rou consisted of 12 - 15 cople, engage of first on Jr. muse only, then Clincse.

55. Then asked what htey had beard of no phile successes of 0.1. . Ohi, they sail that they had beard varuely of successes on emerican and British systems and month and meerican military actuable recyphored obde read in 1942 when Rermel was in North Africa. They thought it had been broken by crypte graphy, a dewine to physical compromise. [Comment: it was plain that these statements were based on remour only.]

- 8 -

56. They admitted that most of the work dent in 'Pers.28' was duplicated in the O.K.M., which worked on diplomatic systems only. Service systems were dealt with by the respective services concerned, O.K.H., O.K.M. etc. Linison between O.K.M. and 'Pers.45' was carried on by Fenner and kasehke [Comment: Hunse and Pauchke had been military cryptographers in World War I.], who were concerned at the asount of duplication and worked at avoid it. Their efforts were not regarded with favour by Selehow. There had been some co-operation, early in 1945 on Furkish, but apart from that the loan of Reve, Hierer and Grosse to 'Pers.ZS' had been the only occasion they knew of on which the two departments hid worked together. The situation was not improved by O.K.M.'s predice of calling up competent people from other departments, putting them in the ranks and then drafting them into its own cryptographic organization.

57. The O.K.W. had neither the long tradition nor the expertise which 'Pers.ZS' possessed, though Ministerialrat Fenner and a small party had been engaged on this work in peace-time. [Comment: it is possible that this was sold in deference to Professor Rohrbach who was present throughout this interview.]

58. In the matter of captured material and machines, Rave said that new arrivals at O.K.W. Cai had been shown a British machine capturel at Dunkirk. It was broken and rusty and did not work.

59. Chinese and Japanese systems: They had read a Chinese Hilitary Attache system, which had ceased in April or May 1945. The first groups of the traffic were EFR, SKW or JAW. The recypherment consistent of transposition within the code groups. The groups were 5 letter groups. They solved the recypherment but never read any deserves.

60. Another Chinese traffic, with descriminant NEDEN, was investinged. It also consisted of 3 letter groups but was unredgehered. It contained many spells which were easily recognisable, the names atc. being split out in simple substitution. It was a purely military call.

61. They broke a Japanese 'Konnwort - Code' consisting of a ulle transposition of 2 and 4 letter groups from a kn in till; the transposition was done by a stencil, the stencil being the proof for each transposing operations. The system was braken in the momentum. It was a diplomatic system use formula becaused lock in the real it from the middle of 1942 to June or full 1965.

62. No work was fund on Jeronese structure fisterer floor fundithered

the Japanese Navel Leenené visiting alest 1. Le.

63. Grosse, asked about <u>Italian work in the Online, montione</u> diplomatic system of 22 and the Indere deep in wind then belved. His statement in general office with once if in. Preside on a provious meeting on Italian work in 'Fors.28' (at prov. 15) five Italian section in the O.M.W. consisted of 15 to 17 ports.

64. Professor Tuhr ach point of out, "iter muse wothe on a fear dismissed, that their state on the Tipatore 'public - do s' no been inaccurate. The recombersont and sincle state wither, not whate. Wifth Meeting; hull at the Orns my School on 19th May 1945 at 3 1.11.

- 9 -

Crusent: Prof. Vitcent (in the chair), Major Seaman U.S., Lt. Fehl, U.S., Dr. Forster.

and later: In succession: Dr. Kustien, RR. Zastrow, Prof. Rohrbach

65. Dr. Kurstien and Professor Rohrbach were called together. Dr. Kurstien however objected to the presence of Rohrbach and it was agreed to interview him alone. [Comment: Rohrbach informed the meeting later that there was consider ble antagonism between himself and Hurstien.]

66. Dr. Karstien had been employed on Slavonic systems until 1930 when he changed to Chinese. In 1938 after the Anschluss the Slavonic countries become more important and he went back to them.

67. The Augoslavs used a five figure code with letter bigrow tables consisting of 100 bigrams. This system was read from 1938 to 1943, when traffic dropped, after which it was read with interruptions. They had not received any Tito traffic, nor military adtaché.

68. Arising out of the matter of attaché systems he gave a short summary of the division of work between the O.K.W. and 'Pers.ZS'. The O.K.W. had at first been responsible for service systems only but had not had enough readable material to train its personnel. It had then taken up diplomatic systems and having once tasted blood it refused to leave them. 'Pers.ZS' left all attaché systems to O.K.W. [Comment: Dr. Harstien was clearly at some pains to bring out the interdepartmental rivalry at which other members of the organization had only hinted.]

69. He mentioned a 10,000 group Chinese Code worked on by Dr.Olbricht, who he thought was lucky, as in the days when he hinself worked in the Chinese he had to cope with a code book of 40,000 groups.

70. Asked about the application of the experience of the organization to the security of German systems, he said that at an early stage the formans had progressed so far on a scientific basis that they had little to learn (... 'sind schon früh auf wissenschaftlichen Gebiet schr weit jekommen, sodass wohl kein Belehrung nötig gewesen'). He mentioned O.R.R. Langlotz (who died two years ago) and O.R.R. Schauffler as having materially contributed to this desirable result. [Comment: see para, 117.]

71. He discounted any assistance received from captured material. He had had occasion to examine captured Czech material on states that the Czech systems were unbreakable. In reply to the quantion (in the respect were they unbreakable? he stated that the Czechs used one-time onto. There was, he explained, a difference between systems which were insoluble in practice (owing to lack of time, personnel or equipment) and these insoluble in principle, such of the Czech, Russian and Gerron systems. [Comment: This valuable flatingtion was much a precised by the interrogators.]

72. Polish systems he hal four unbrochable in practice, there were too many of them. They required more hab ar then the lepartment had at its disjosal. He mentioled a five figure book with a subtractor.

73. The Dulger and used five firms backs of 10,000 groups with

74. The Lithuaniana and Letts used nainly transposition, semetimes double, sometimes single, occasionally recyclored with Vigenère substitution.

-

75. He had never been concerned with the solution of machine systems.

- 10 -

76. No liaison with foreign cryphographers existed.

77. No intelligence work was done in the department itself on decyphered material, though the selection of material for issue was of course guided by considerations of its possible intulligence value. This selection was done by the <u>Referent</u> [sub-section head] on the basis of knowledge and experience.

In the matter of afficial recognition of work done by the 78. organization he observed that there was none, even from the Minister though, as everywhere, the authorities were quick enough when it came to complaining. [Connent: this question was inspired by the Discovery in Dr. Paschke's private papers of a letter dated 30.5.1938 from the Foreign Minister, von Weizsäcker, congratulating Paschke on particularly successful efforts ('besonders erfolgreiche Bemühungen') in the field of work assigned to him.] 'We worked', said Dr. Karstien with some complacency, 'entirely in the dark' [Wir arbeiteten vollständig in Dunkeln'. Comment: the romantic aspect of this kind of activity appeared to afford him some satisfaction. It had been different with the Austrian Foreign Office cryptographers, who had been plid partly by results; solution of a difficult problem had been rewarded by a bonus. A former member of the Austrian organization (now dead) had transferred to 'Pers.ZS' after the Anschluss and professel himself dissatisfied with the remuneration in his new employment,

79. Dr. Marstien was dismissed and Herr Mastrow called.

80. Herr Zastrow asked that Professor Rohrbach be allowed to to present at the interview. He was accordingly called.

81. Herr Zastrow is a bookbreaker and has been engaged on U.S. systems for 27 years. The Americans used mainly 5 letter books with 10 recyphering tables for monoalphabetic and bigran substitution to each book. The tables ran for two to six months. Later ther substitution tables began to be used, with 5 indicator groups to other orble. The tables were changed in the course of a message, the indicator for the new table being encyphered with the previous table.

82. The german designation for these systems was M. E. B. tc., to BLO, (B = Buchstabe). Mmerilen equivalent. A read berch ward:

16. = 1.1

16b = 31 37 = 01 F0 = Ercun Couc

The Boa book was known through invaiced compromise. The licena Color had been captured but it had been broken buf are capture. The meanstruction of the book had taken 24 yours.

83. ... transposition system used by the 'Our finat rof Information Washington' was continued. No success had been relieved with this.

t one wind Herr Lastres had been lent to the C.S.T. The head 51. of the Dritish on eneric neubecetion in the M.R.F. w. 200. Renen, whe did the same work as was dend in 'Pors. S' but how appendente · :+.

- 11 -

Herr Jostruk know of n U.S. machines or expirers other that the 5. strip.

66. He said that he was tired of enyptography after 27 perrs of would like to oning over to some kind of administrative jost in the di lomatic service. [Comment: the interrogators did not think he would do well in such a post.

Professor Rohrbach was careful to point out that the luce of 87. Zastrow to the O.K.W. by 'Pers.ZS' was a very different matter irea the lean of Rave, Hierer and Grosse to 'Pers.ZS' by the O.K.T. Instrow was an export and a man of considerable experience, whereas the other three were young men who had to be taught their business. [See para. 50]

[Comment: Conversation was carried on in English. Herr Erstren's 88. speech consisted largely of indistinct mumblings, so that sime lifficulty was experienced in recording what he said. Prof. Robrbuch informed the interrogators that Eastrow was very difficult to unlar tan even when speaking German,

.9. The meeting was adjourned.

Sixth Meeting; held in the Oratory School on May 21st, 1945, 11 a.m. to <u>]</u> p.m.

Professor Vincent (in the chair), Commander (S) Dulle resent: Smith, R.N., Major Seanon U.S. ..., L. Fehl, U.S..., Dr. Forster, P.O.M. Phipps W.R.N.S. Dr. Laschke, ORR Schauffler, Frof. Rohr ach.

The main object of this meeting was to obtain internation of -0. work done on British systems.

In reply to the question whether work and the colonie of the 91. Fominions or India Office systems, Dr. Coschke relie. in this Cifficult to keep them apart. Ill unrecyphered calls more inversioned. Inlia Office troffic was only investigated then another and reavailable, which was not creen, an in any case is a slittle natori:1.

92.

British umeeyonerel 4-leter becks. The time to be a the introduction of a new boll in the runling of comments veried very much, but in frour the circlestrated and the senter. Huch of course de conletter and lini-u mist milisine d' terente in the press. They have subsection for really a set and for this unjose but information apentation auto one a liter work i the basis uns alrea. " luilt up tos a untent en las ther calle fle fle den a partially for alloss de and indiant to La last on star she ind. The alus syster: In chans bodh une construct our sinterer in their reconstruction.

93. British unrecyphered 5-letter books. The time lug in bookbuilding was longer than with the 4-letter books, i.e. 4 to 5 maths, but the centent of the messages was less important. There ware two large books, one in general use, the other principally use for the traffic traffic of the South Frice Covernment. The first was also used by Eire. These books were of no great i portance and were not fully built up.

94. One 4-letter and the 5-letter book were captured in Norway but both were already readable.

95. No recyphered letter traffic was real.

96. <u>British figure systems.</u> They had no captured broks, but an out of date recyphering table was captured in Norway, which enabled Dr. Kunze to strip the traffic for a time. Analyziz of the captured table gave an idea of the scope and method of recyphering, but they never actually read any of the traffic. The starting points for the subtractor depended on the date and the number of the reserge.

97. No work was done on figure traffic sent with a 5-letter indicator of the type CVCVC or VCVCV. It contained groups on unrecy hered code in the preamble. No intelligence about order of battle of imilitary authorities etc. was extracted from these preambles in the lusyärtiges lint, as the O.K.W. had copies of the mesanges in any cuse. No assistance in breaking additive recypherments was received from references to previous telegrams made in plain code in the preambles of cypher telegrams.

- 12 -

98. "five" figure system, Interdeportmental Cypher, was captured in Norway, but the O.K.V. and Gorings Forechun sont were principally concerned with its exploitation. He thought that the degarbling system had been reconstructed.

99. Dr. Paschke made it clear that although these systems were notrreal, there was in fact enough material for them to be readable. When asked whether any assistance was affered the argumisation in this respect he said that they had to manage with the personnel they had. The acquisition of Hollerith machinery has no connection with the provious failure to solve Fritish systems. Peril lical checks were made to see whether the systems changed but they more convinced that no fundamental change occurred.

100. No work was done on British conservial or Tark i England systems. Dr. Paschke was of the opinion that these were not headed by the O.K.W. either and suggested that Gürin 's Forschun same i jut have been concerned, as it had economic on industrial interests.

101. Authorities responsible for crypto requie work a listenaic material: It was note clear at this point that there were three independent parties working on diplomatic spottane in Garany - the 0.K.M., the Auswärtiges Ant, and Göring's Freschurgerst. The Auswärtiges Ant had loss lighted with the Forschurgerst. The the 0.H.W.

102. Shift Working Working hours word from b tom. In 6 p.M., though Dr. Hunze's party occasionally worked nights. There a a always a futy officer available at night. They had as no tuber shift system because it was difficult to not pouple who were such the to factor of walches. - 13 -

103. Interception: Material come from 5 min 5 urcus:

- 1. O.K.W., which mainthined interception stations of Louf, Treachbrictzer and Lörrach. Traffic receivel by 1/2.
- 2. Forschungsont, stations not known. Haterial intercepted by the Post Office, beth 7/P and L/P, reached 'Pers.15' through the Forschungsont until that was bradel out, after which this type of a terial game direct from the Central Post Office.
- 3. 'Pers.ZS' maintained a small interception station of its own in Dohlom, called Landhaus. It was used to cover the more important traffics such as inkars and Lisbon. London was always very poorly received.

104. The O.K.W. maintained interception stations in occupiel countries; he knew of one in the Balkans, one in Greece and one in France. No material was received from diplomatic posts alroad and none from foreign interception services, except some traffic intercepted by the Hungarians which was forwarded through the O.K.W. Nothing was ever received from the Italians or the Pinns. In most cases the traffic was copied in the O.K.W. or the Forschungsamt before it reached 'Feru.Z', so there was no indication of its origin.

105. It was stated that the O.K.M. did no work on British recycliced looks.

106. If when a new system was broken it was discovered that trific dealt mainly with matters outside the diplomatic field, it was hand over to 0.3.3. for exploitation.

107. Dr. Pasonke was unable to say which British channels reduced the greatest number of messages with intelligence value and said that Frl. Hagen could answer this question precisely. [Comment: Sector. 41a ff; this lady is ill and is at present detained at Marburg.]

108. On the matter of misuse of low grade systems for the unread of passing high grade information, Dr. Paschke stated that there in general the intelligence value of the low grade traffies a part high they had carried a number of messages of considerable interate. This is pression had been at the time that these messages more prises in that tay for the express benefit of the Germans. He recalled a number of the states of the out-break of the war to the effect that which is the not reach neutral in the event of a conflict between Germany and the the remembered a case about six months are of a constitution of the theory of a constitution of a signature to finter theory of the burning of a signature to finter theory of the measure aroused considerable interact in ordin to not charter. This message aroused considerable interact in ordin to not clear. There are adout to check its accure to the termine the theory of the measure aroused considerable interact in ordin to not clear. There are adout to check its accure to the termine the theory of the state and the check its accure to the termine of the term. There are an ordinated to check its accure to the termine of the term of the termined of accure to the termine of the state of the termine of the term.

it such nears an are shown to the Minter, pinci ally those a nourning

129. In Make ... Frefize. "INTER ALL C.

10. <u>incriant traffic</u>: Now importance and stands to userious then Initial traffic, wrthy for applying radius radius, no the sector andorial was explore to real. The links to error, minor, Lisber and Vichy were the last important, "technolic Los no. The Derne link shows measages from symbolic Germany. Infulligence naturial was also apped from Finland and Locess. 111. ORR. Schauffler was asked about his interest in cypher machines. He said he never used any himself, but collected material bearing on the subject.

- 14 -

112. As much as twenty years ago he was interested in the Enigma as a cryptegraphic device. He mentioned a printing Enigma as existing in those days, which was superseded by the Enigma with lights. The Wehrmacht had taken up this latter model and improved it.

113. The commercial type Enigma used by the Swiss was sometimes solved by stereotyped beginnings and known settings. The Swiss used to include in their messages the machine setting for the next message.

114. He had investigated the Kryha machine and had reported that it was soluble.

115. He had also some knowledge of the 'Geheimschreiber', one of the principal features of which he described as consisting of wheels with adjustable wiring. It was not very satisfactory and Hüttenhain of the O.K.W. Forschungsabteilung [Comment: not to be confused with Göring's Forschungsamt]was continually finding cryptographic faults in it. The nuswartipes Amt used the 'Geheimschreiber' but the O.K.W. was responsible for the security of the device.

116. When asked where the machines come from which 'Pers.ZS' investigated, he said that they were supplied in order that their security could be tested. Hegelin machines had been investigated by the Wehrmacht and O.K.H. had read material encyphered with them.

117. His own special duty was to ensure that cryptographic possibilities were known and appreciated. He had worked with ORR. Langlotz (see para. 70), Head of the Cypher Security Section of the Luswärtiges Lat, on this subject and was satisfied with the liaison existing with the authorities responsible for German systems.

118. At this point, Dr. Paschke observed that they 'had reason to be convinced of the superiority of German systems' ('Wir waren mit Rucht überzeugt von der Überlegenheit der deutschen Verfahren'), with which ORR. Schauffler agreed [Comment: the general context of this remark suggested that 'German systems' was intended to include the machine systems used by the armedforces.]

119. In reply to the suggestion that the alvent of machines meant that the great age of cryptography had come to on end, O.R. Schauffler said that the great age had begun with the first world per and wis likely to end with the second. It wis however worth bearing is might that at the end of the last war people were saying that the age of cryptography was over.

199a. He felt that the <u>history of cryptography</u>, in unich he had a lifelong interest, had in this connexion a real function to perform, in that it attracted attention to methods of solution on logeneral cryptographic possibilities. Machines for instance were only insoluble as long as they were well used. The Swiss Lai ma her been real because it was badly used. The Tehrmacht had held down strict rules for the use of the Enigrato ensure that compromise did not occur through improper use. The same applied to other systems. 110. In. Possible on this point spoke of a <u>Russian diplomatic one</u> <u>time of which had been used by the Russian army under conditions</u> which 'i' not permit the normal instructions for use to be observed on which 'i' not permit the normal instructions for use to be observed on which 'i' not permit the normal instructions for use to be observed. The which who thus compremised. The CHLH, had real it up to Stalingrad. The which are used more than once. The traffic was real schedings on the which of 5 and frequently on depths of a or 5. The solution is helped by the circumstance that the Russians always used alphabetical only the diplomatic for security on the recypherment. The diplomatic books are all four figure, the army backs all five figure.

- 15 -

121. Epucial of macteristics of Russian one time inds. Longe ifferences between adjacent firmes were comparatively more. He has been speciment of Russian one time pads captured in the field. They had been typed on a typewriter with one carbon. Series of figures (c. . 345678 etc.) with a difference of 1 were cormon an other sychological poculiarities of the typist, such as a recognisable listeste for zere ('Angst vor den Hull'). The indicators were encychered with the first group of the finished telegram. The folce sum of the genultimate group was the discriminent.

102. Hentioning the circumstance that the Russian systems changed ofter the publication of the Dritish White Paper in 1927, ORR. Schruffler remarked that to did not publish the really interesting material and the time and he had never been able to understand why not.

125. Double transposition. When asked about their general success with systems of this kind, Dr. Paschke stated that it was sometimes possible to read them currently, but that it depended on the number of heys. In general he thought, and ORR. Schauffler agreed, that they caused as much trouble to the legitimate users as they did to the eryptographer; they were secure but laborious. American double transposition systems were known to exist, but no work had been long in them.

124. Last War Papers: ORR. Schnuiflor observed that his baces among the captured material ('Serie 20') curtained a collection of uncortal relation to the cryptographic work due by the Garmans on Dritish Havel cyphers during the last war.

125. Strongth of the Organisation since its Indeption: Routh figures very fiven as follows:

1915	20 t. 3j jonila
	50 perilo
1/1/2	20 : 160 per 15
1. 5	120 t 200 joonle

126. The dest my was adjourned. Before the flip armant Professor tohreach matter anything could be foun that they the behavior of the Pers.23' specialist on furtish, polish to Slavende countries, when a been last heard of in custo your deliver Slavende Greenmont pollet. He was also armious to have news if the stree of health of D<sub>2</sub>. Frankly, who is not in hespital. The mosting and unable to provise regular on either of these points. - 16 -

Seventh Mecting; held in the Oratory School on May 21st, 1945. 2.45 p.m.

- Prescht: Professor Vincent (in the chair), Cdr (S) Dudley Smith, R.N., Major Scaman U.S.A., Lt. Fehl, U.S.A., Dr. Forster, P.O. M. Phipps W.R.N.S.
- and later: Frofessor Rohrbach, Dr. Schroeter, Dr. Schultz, Herr Krug Herr Brandes, Dr. Bonzing, Dr. Deubner, Dr. Olbrecht, Dr. Müller

127. On the advice of Professor Rohrbach it was decided to divide up up the eight members of the party who had not yet been interviewed into three groups, taking the three gentlemen from Dr. Kunze's party first. It was pointed out to him that the restricted accommodation available did not enable the meeting to ask him to 'sit in' on the interviews, as had been done on previous occasions, and that the presence of section heads at the interviews of members of their sections, which he carnestly requested, would be impossible for the same reason.

128. Dr. Schultz, Dr. Schroeter and Herr Krug were called.

129. Dr. Schultz is a mathematician and statistician by profession.

He worked before the wor in the Statistisches Reichsamt and was transferred to Dr. Kunze's part in 1939 at the outbreak of hostilities. He had worked on the Japanese machine until 1940 when it ceased to be soluble. It had been broken before he came to work on it.

130. He then worked on the American B7 (C1) code and solved the recypherment. There were 80 to 100 tables, the first of which were difficult to reconstruct, the later ones getting progressively easier. He built up 80 tables himself. When the tables changed, so that the sequence was no longer every, he continued investigations, but work was discontinued in favour of the American strip '02'.

131. He had assisted Dr. Kunze with investigations on the Enigno machine, and the Swiss enigma was successfully solved.

132. He stated that his interest in these matters was purely theoretical and mathematical and that he had little idea of the intelligence value of the material he investigated. It usually left his hands before it was actually readable, as Dr. Kunze's party was responsible primarily for breaking recypherments.

133. When asked what he considered the greatest methodological achievement of Dr. Hunze's party during his term of service, he said that the '<u>O2' American strip</u> was in his opinion the greatest success. It was solved by hand, as at that time they had no machines. ('O2 wurde entschlüsselt ohne jegliches Hilfsmittel'). He sketched the method of solution as follows:

the second se

This is a copy The original has been retained under section 3(4) of the Public Records Act 1958. Lob. In the future of 1904 he had begun work on a Polish system, a 4 letter book recyphered with bigrom substitution. This system had been investighted before but work on it had been discontinued for a while. Gürings Perschungsamt had been interested in it but had not seriously tabled the recypherment and had restricted itself to sorting the material. This system was used by the Polish Government in London for communication with Barne, Washington, Cairo and Jerusalem. He had seen no traffic between London and the underground movement in Foland. Dr. Kunse's party was still working on this system at the time of the capture of Zschepplin. Some tables had been recovered and related, but no book-breaking had been done.

- 17 -

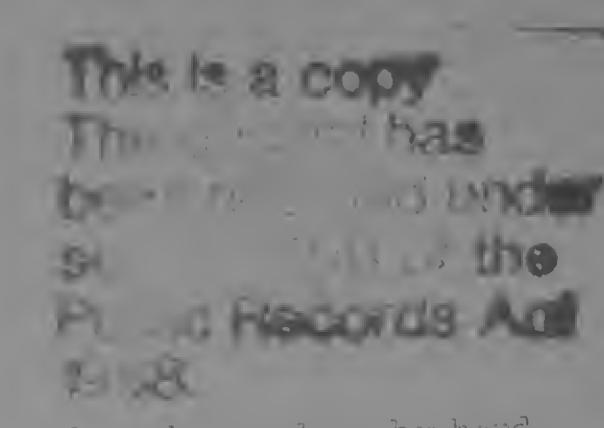
136. Dr. Schroeter: Had joined the organisation comparatively later (Spring 1941) and had no intention of 'staying on'. He was a locturer in mathematical logic at the University of Münster. He had joined Dr. Hunze's party and worked independently on Japanese recypherments.

137. He started work on simple transposition recypherments of codes;

140. Horr Krug is a mathematician and a school-master by profession, who and joined the organisation in 1940.

This is a copy The original has been retained under section 3(4) of the Final Records Act

- 18 -



old. All this time they had no machines and all work was done by hand.

142. They read no traffic prefixed INDIV, INTER or PFLR.

145. <u>Hollerith machinery</u>: When Hellerith machinery was finally acquired Herr Trug was put in charge of the subsection which operated it. In reply to the suggestion [Comment: see connent on pera. 23] that the acquisition of Hollerith machinery was in some way connected with the failure to continue reading British systems, Herr Yrug said that there was no connexion. His next-door neighbour in Berlin-Lichterfelde was a Dr. Mech who was manager of the German Hollerith concern. Friendly conversation with Dr. Mech had set Herr Brug thinking about the application of this kind of machinery to his own work. He had put the project up to his superiors and in due course the equipment had arrived. [Comment: at the First Macting Professor Rehrbach had suggestee (see para. 6) that the acquisition of the machines was due to the personal interest of Ribbentrop]. He said that the OKW possessed ho

machinery of this kind, but that Göring's Forschungsamt did [Comment: there may be some confusion here between the Forschungsabteilung of the OKW and Göring's Forschungsamt].

144. The machines they had were:

- 20 'alphabetische Locher' (alphabet punchers)
- 10 'Sortiermaschinen' (sorting machines)
- 2 'Kartenmischer' (collators)
- 2 'Kartendoppler' (reproducers)
- 1 'Rechenlocher' (number punchers)[Comment; he said this was for multiplying and differencing]
- 4 'Alphabetische Tabelliermaschinen' (alphabetical tabulators)
- 2 'Tabelliermaschinen D 11' (calculating tabulators)
- 1 'Spezialvergleicher' (multipurpose machine designed by themselves)

145. They had designed a number of accessories to these machines, For the sorting machines, they had designed two devices: a 'Kartenzöhler' [card counter] and a 'Nummernsucher' [number finder]. The alphabetical tabulators had an attachment which prevented the machine from printing unless there were two or more identical cards. This was usoful for finding repeats.

14. The 'D 11' machines were not Hollerith but ordin ry statistical conculating machines made by a German firm. [Comment: the 'D 11' is a follorith machine. The captured material contains several prospectutes (seribing it]

# 146. The Alperantical methics and pint figures, but the collectricity

- 19 -

149. Dr. Schultze, Dr. Schrocter and Herr Krug were dismissed and Herr Brandes, Dr. Benzing and Dr. Deubner were called.

150. Herr Brandes is a bookbuilder and joined the organisation in 1920. Since 1938 his special field has been the systems of France, Belgium and Switzerkand. He was satisfied with his work on the whole but thought that more could have been achieved with more staff.

151. French: they had read recently a de Gaulle system consisting of a four figure book with a subtractor consisting of five digits repeated to the end of the message, changed daily. The code was a hat book which had been revised ('nougemacht') since 1937. It contained a group for 'Général de Gaulle', but this was a later alteration. Common significations had a number of alternative groups; 'du', 'de l', 'des', 'full stop' etc. had up to 10 to 20 groups. The traffic passed on this system was of a fairly high order. It was used with Washington, London, Stockholm, Moscow, Madrid, Chungking, Buenos Aires and Montevideo.

152. He spoke of another French system consisting of a four figure book with letter bigram substitution with limitations. Only 10 letters were involved, so it was easy to convert them into figures. The recypherment was done by tables of 100 bigrams, changing quarterly. The same table would be used on different dates in successive months of the quarter. The bigrams were taken horizontally. Only the Navy used horizontal and vertical substitution together.

153. He mentioned an unrecyphered book which was not broken. It ran concurrently with the system described above and had the same External characteristics.

154. There were several French systems which they did not read.

155. Belgian: They knew four different Belgian systems.

156. The first was a four letter book, used in two forms: 1) a straight alphabetical vocabulary, in which e.g. 'full stop' = UYAK, or 2) in which the groups were transposed within themselves and UYAK was expressed as KUYA. The latter form was the commoner. This book was used with daily changing bigram tables. At first these tables were systematically construct but grew progressively less so until they were finally not systematic at all.

157. The scoond was a three letter unrecyphered book on which they did not work.

158. The third was a book known to them as KAMI (the code group for 'full stop'). If the groups were rearranged in the form MIKA the book was partly alphabetical. It was recyphered in the same way as the first (KUYA/UYAK) system.

159. The fourth was a four figure code used for traffic with the colonies. The recypherment consisted of transposition of one half of the book group and substitution of the other half. This code could be used as a five figure book, in which case the significations in the second column had to be taken. All the traffic on this book was read.

160. Swiss: Everything was read except the machine, and that was readable for a time.

161. There was a 3 letter cole with recypherment by substitution in columns, separate tables being applied to a single letter and the two subsequent letters. The recypherment changed after the 11th,

15th and 26th groups; a letter, recyphered with the previous tables, indicate: hich tables were to be used for the following groups.

162. He mentioned the 'TE 3' code, a trilingual book with German, French and English editions. An indicator showed which edition was being used. This book was unrecyphered.

163. Dr. Brandes was unable to state the exact dates when the Swiss Enigma was read but said that it was read completely for a considerable time. [Comment: the phrasing of his statement implied that there was also a time when it was partially readable].

164. Dr. Benzing joined the organisation in 1937. He is an orientalist by training, Turkish being his speciality. He worked as a bookbuilder on the systems of the Near Eastern countries. His section was fully occupied with Turkish and Persian, so that although in theory they were also responsible for the Arabic speaking countries, no work was in fact done on them.

165. All the <u>Turkish</u> diplomatic traffic was read. A few short messages sometimes proved difficult. The Turks used a 40 figure subtractor.

166. All the Persian systems were read. They used a three letter book with substitution tables, which often changed. The Persians however always indicated in clear which table was in use.

167. Dr.Deubner: a classical archeologist by profession [Comment: of considerable repute]. Had done excavations in Greece and had a post at the Porgamon Museum in Berlin. Worked on Italian and Greek systems.

168. <u>Italian</u>: asked about Italian systems after the collapse he mentioned a double transposition used by the Badoglio government which was never solved, and a meadable unrecyphered letter 'administrative code' used mainly for communications with Berne, and a system known to them as the 'Salzburg-Verfahren' with a 10,000 group ('Element') subtractor. This system was very difficult and was worked on by Dr. Paschke personally. It was seldom broken.

169. Greek: there were three systems, all of which were read: 1) a clear 5 letter book, the fifth letter of which was dummy; this carried most of the traffic. 2) a clear 4 letter book, used mainly for traffic with Berne.

> 3) a four figure book used with bigram substitution of 30 tables of 100 bigrams each. It was used between London and Moscow, Washington, Cairo and Ankara. Traffic from London amounted to about 1 a day. The bigram tables changed recording to the date.

170. They had not received any captured Greek code or cypher documents.

171. They had read no partisan traffic.

172. He stated that there was close liaison with the O.K.W. in his field to climinate duplication of work.

173. It took up to 8 digs to receive traffic from intercept; and from 1 to 4 more days fore translations were issued. 174. Herr Brundes, Dr. Benzing and Dr. Icubner were diamissed and Dr. Olbricht and Herr Miller were called.

175. Dr. Olbricht is a bookbroaker. He tool a dictorate in Chinese in 1938 and joined the organisation in 1939, where he worked mainly in Japanese and Manchurian systems.

176. JB 57. Another Japanese two letter book with a recypherment consisting of stencil transposition with mills, which was read for about two years. There was also a variant with substitution recypherment using a table of about 30 alphabets.

177. He confirmed Dr. Schroeter's statements on Japanese systems.

178. <u>Manchurian systems: he mentioned transposition rocypher-</u> ments of a basic Japanese three letter book. There were 366 very small cages, one for each day. If the message was too long to fit one of these cages, it was continued on the cage for the next day and so on. This system was no longer current. Dr. Schroeter had been working on a current Manchurian system, the method of rocypherment of which was thought to be the same as before.

179. They had had a captured Hanchurian code book.

180. They did not handle Chirose military attaché traffic. A Chinese system called UTI had been solved in 1941-42.

181. Dr. Müller is a private teacher of languages who joined the organisation in 1940. He worked on Scandinavian and American systems.

182. His work on Scandinavian lasted for three months in 1940 when all Scandinavian work was transferred to the OKW. During that time he had worked on a Swedish unrecyphered five figure hat book. Practically no work was done on Danish or Norwegian. He had some unofficial liaison with people at Göring's Forschungsamt who were working on Scandinavian.

183. After he gave up Scandinavian he worked on U.S. systems and corroborated in general the statements of Herr Zastrow on these (see para. 80 ff.) He added that the 'Brown Code' was used for traffic with Berne, Ankara, Kuibyshev, Beyrouth and South American posts such as Rio de Janeiro. He knew of no American system B9 cr Blo.

184. The meeting was adjourned.

Interrogators' Personal Impressions of Principal Members of 'Pers.Z.3'

185.

Professor Ronroach:

Hurvy Holomatic Lanner. Forceful contractor. .. schemer. Hoped to coll 'Pers.ZS' as a going concern to the Western Allies. Clarke conc English.

186. Ir. Paschie;

Lie ore dignity than the others. Dasy diglock the manner. Was careful to day no more than circumstances demanded. But up a good onow. Ferrous type. Speaks some English.

### 187. Oberregierungsrat Schauffler:

188. Dr. Kunze:

Said as little as possible and moreover has difficulty in expressing himself. Appears to be asleep most of the time; this is deceptive. Unworldly academic type. Greatly respected by his colleagues. Understands English.

Professional competence apart, rather nondescript. Anxious to please, but often gave evasive answers.

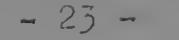
189. The three section heads we concludely prepared for therough cross-examination, and were somewhat nonplussed by the informal way in which the interrogation developed. Such information as was withheld by the seniors, or rather was not volunteered by them, was, however, easily obtained from subordinates.

- 22 -

	190.	Dr. Karstion:	Cold, dandified and conceited; a 'man of the world'. Had a low opinion of the interrogators, which was reciprocated. Likely to be more affected by intellectual than by moral scruples. Understands English.
· (	191.	Dr. Schruetter:	Pleasant academic type, good character.
	192.	Dr. Schulz:	Urworldly academic type; rather frightened of us. Some English.
	193.	Herr Krug:	An enthusiast for his jub, partic- ularly for his machines, and carer to talk about them. Some English.
	1.94.	Frl. Friedrichs:	Able woman of strong character, the would come to the top in any ergen- isstion. Probably not top script- lous. A good ally in any dubious undertaking. English flocat and illiomatic.

195. Cover Names used Guring the interregation:

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# PPENDICES.

L: Organization of 'Pers.ZS' as at end of 1943. B: Organization of 'Pers.ZS' as in April 1945.

These are copies of documents compiled at the request of Lt.Col. Evans by ORR. Schauffler and Dr. Paschke.

ORGENIZATION OF 'TARS.7S' J.S IT IND OF 1943

Burgscheidungen, den 27. April 1945

Abteilung 'Pers. 3S'

d.i.: Entzifferungsdienst für frende diplomatische Telegramme mit der Dezeichnung "Sonderdienst", verwaltungsmässig der Personalabteilung des Auswärtigen Antes angegliedert.

Leiter: Gesandter I.El. Selchow

Ab Ende 1943 durch Verlagerung von swei Abteilungen in

Ausweichquartiere Aufteilung des Gesamtsonderdienstes in drei Abteilungen, die durch täglichen Kurierdienst miteinander verbunden waren. Dauer dieses Zustandes bis Jenuar 1945.+)

Hiernach war die Verteilung der Geschäfte wie folgt:

I. Stammabteilung Berlin - Dohlem

Leiter: Oberregierungsräte Schauffler und Paschke

a) Schauffler:

- 1. Japan
- 2. Systematik und Grundlagenforschung
- 3. Verwertung der Erfahrungen an fremden Chiffrierverfahren für die eigenen Verfahren des Reichs
- b) Paschke:
  - 1. Verwaltung
  - 2. Dearbeitung und Edition von diplomatischen Telegrammen folgender Länder:
    - a. Japan, China
      b. Türkei
      c. Iran, Afghanistan
      c. Italien, Grischenland
      e. Frankreich, Belgien, Schweiz
      f. Rumänien
      g. Jugeslawien
      ORR Schauffler
      ORR Schauffler
    - h. UC

- Dr. Krurmel Unstrou
- i. In land, Irland, Symmion, Lordugal, Latein-Amerika Prl. Hogen
- 3. Information und Moderich workertei Irf. Dr. Lorn.
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- Linder abiete: b)
  - NIL Dr. Kirstien Bulgarien, In ation, Polen 2. Ir. Olbricht Japan, China 1.3 m
  - Frl. Schräder. Frankreich, Duljien, Schweiz C.,

#### III. usweichstelle H e r m s d o r f (Riesengebirge)

#### Leiter: Oberregierungarat Dr. Kunze

Bearbeitung schwieriger hryptograchischer Frobleuc: Diagnose und Lösung neuauftretender Chiffrierverfahren, insbesonders solcher, die einen grösseren Person-1und Jeitaufwand oder auch die Verwendung technischer Cerite erfordern.

Ein charakteristisches Reispiel für die Zusammenarbeit der obengenannten drei Dienststellen stellt das Argeitsgebeit Ja an der: Wihrend z. D. in einem bestimaten japanischen Verfahren die Erstlösung der Uberschlüsselung in Hermsdorf gemacht wurde (Dr. Schröter), erfolgte die laufende Lösung der weidern Schlüssel in Hirschler; (Dr. Olbricht) und wurde schliesslich der su th'rije Colle in Dahlon ontwickelt, wo such die Übersetzung und Hermus wie der betreffenden Telegranne vorgenommen wurde (ORR Schaufiler).

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#### - 25 -

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Länder-Referate: 1.2.0

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> Dritisches Imperium Irland, Spanien, Portugal, Mittel-2. und Süd-merikanische Staaten, Thailand Referent: WHL Frl. Hagen Vertreter: WHA Frl. Wernick

Italien, Vatikan, Griechenland, UdSSR 3. ORR Paschke Referent: Vertreter: WHA Dr. Deubner

Ruminien 4.

Referent: RR Dr. Kasper Vertreter: WHA Menning

- Slawische Staaten (ausser UCSSR), Lettland, Litauen 5. Referent: RR Dr.Karstien Vertreter: WHA Frl. Friedrichs
- US, Skandinavische Staaten Referent: WHA Dr.Mueller, 6. Hans-Kurt Vertreter: WHA Zastrow
- 7. Türkei Referent: ORR Scherschmidt Vertreter: WELL Burghard
- 8. Iran, Afghanistan, Arabische Staaten Referent: RR Dr. Densing Vertreter: Frl. Dr.Schimmel
- Japan, China, Manschukuo 9. Referent: ORR Schauffler Vertreter: Dr. Olbricht
- Buro, Information (Auskunftstelle für die Linderrefernte) D. und Archiv der herausgegebenen Telegromme Referent: Prof. Dr. Horn
- III. Mathematisch-kryptologische Alteilung Leiter: Old Dr. Kunze



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# Den 30. \_\_pril 1945

The numbers refer to paragraphs, not pages

- 26 -

INDEX

الله الله . المحل الله .

145 Accessories to Hallerith machinery 54 168 'Administrative code', Italian -144 Alphabetic tabulators 143 alphabeti che Locher 144 Alphabetische Tabelliermaschinen 143 Alphabet Lunchers 129 Imerican 17 (Cl) Code Imerican Coubl transposition systems 55 merican military attaché traffic 24, 30, 129 morican strip 44 , machine for solving 133, 134 , method of solution 81, 110, 181, 183 American apatens 63 IR 22 164 Arabic specting countries

ARFIR Attaché tra	ffic	21,68
	, Japanese military	21
***	, imerican military	55
	, Chinese military	59, 180
Austrian Fo	reign Office crystographers	78
Auswärtiges	int'	3, 101, 115, App.A
Austausch,	einsciti.ger	12

17

77 codé	129
39	183
<u>Blo</u>	183
Badoglio government	168
Bank of England system	100
	155 ff.
Delgion systems	
Benzing, Lr.	149, 164 ff., 120.1.,
	App. B
Digram substitution, American	81
- , French	15
- , Greek	169
- , Italian	25
- Jugoslav	18
~ , Polisk	135
Bigrom tables, Belgian	156
Bookbuilders	7
Brandes, Harr	150, App. A, 1, p. B
British connercial systems	100
British di lonatic system	23
British figure systems	96
British Nov 1 cypher, succes with - in 1914	
The reaction of the contract of the reaction o	- JU Weit at 19 I City

Dritish necyphered books Dritish recyphered letter traffic Dritish systems

÷.,

British unrecyphered 4-letter books Dritish unrecyphered 5-letter books British weather cyphers 'Drown Code' Bulgarian cyphers Durghard Durgscheidun en

10 -

105 95 22 ff., 32, 55, 90 ff. 143 92 93 22 82, 183 30, 73 App. B 10, App. 1

- States

Cl code Calculating tabulators Captured material Card counter Chiffriorabtoilung Chinese military attaché traffio Chinese systems Circular telegrams Collators Colonial Office systems, British	129 $144$ $26, 71$ $145$ $3$ $180$ $20, 59, 69$ $16$ $143$ $91$ $147$
Comparator 'Coordinator of Information Washington' Cover names used during interrogation Cryptographors, foreign, relations with , Austrian Cryptographic bureaux, liaison with Cryptography methodology Cryptography , history of Cypher Security Section of Auswärtiges Amt	$ \begin{array}{c} 147\\ 83\\ 195\\ 9, 26, 76\\ 78\\ 9\\ 8\\ 119\\ 119a\\ 117\\ 71\\ \end{array} $

- 27 -

С

Czech systems

D

D 11 machines Dahlem Danish traffic		144, 103 182 98	145
Degarbling system De Gaullo system Deubner, Dr. Diplomatic Codes and Cyphers,		151 149, 3	167
Dominions Office systems Double transposition	German	4. 91 123,	168

E

Eire Enigna

Evans, Lt.Col.

 $\mathbf{E}$ 

G

Far Eastern languages Fennor, Ministerialrat Finland, use of Hagelin machine by Forschungsabteilung, OKN Forschungsamt, Göring's

French systems Friedrichs, Frl.

12

93 112 ff., 119a, 131, 163 12, Appendicos

6
53, 54, 56
45
115
See under Göring's
Forschungsamt
15, 150, 151 ff.
29 ff., App.B

Geheimschreiber German systems, security of Göring's Forschungsomt

Greek systems Grosse, Herr Grundlagenforschung Grunsky, Dr.

- ×

115 70, 117, 118 98, 100, 101, 103; 115, 143; 182 167, 169 ff. 51 8 11, 126 Magun, Prl.

Hernslarf Hierer, Hirr Hirschberg Hollerith anchines Holloway Drisen Horn, Professor Jr. Hühnke, Frau Dr. Hültenhain, Dr. 45, 55, 115 52, 11, 10, 107, 52, 11, 10, 107, 54, .... 51 53, 00, 143 11 41, 410 53

Identical indicators TE 5 code 'Impero' India Office systems Indicator, 5-letter, Dritish figure systems Indicator tables, American INDIV

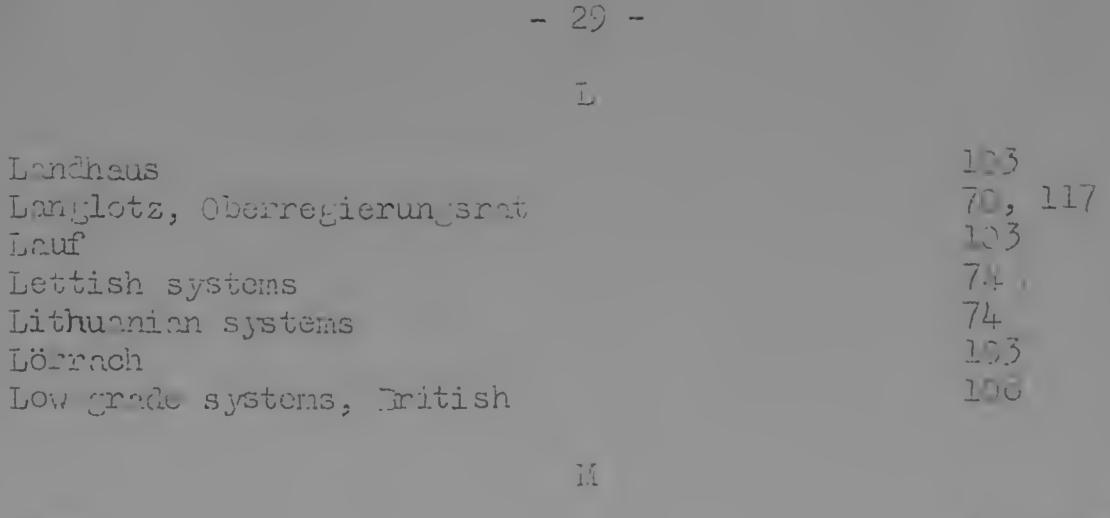
- 25 - .

Intelligence INTER Interdepartmental cypher Interception		37, 77 142 98 103
Italian systems . - , work on	. – in OKT J	25, 167, 160 63
Japanese machine traffic Japanese military attaché Japanese Naval Attaché Japanese recypherments Japanese systems	trafic	46, 129 21 62 136 10, 10, 59, 137fr.,
JD 57 JD 52 JD 64 Jujoslav traffic		175, 176f. 176 139 135 13, (7
Unikstein, aberat 1011 Kanstion, r. Harten issaar Hartensthill Hartensthill		53 15t 15tr.,,

No...12, die st 'domment-colo', Jr. naos Notal Jr. Nota, Jr. Nroha, Lot donstat Hrunal, . Nryth modiles Nurse, Dr.

.

53 (1.: (13 55, (2 147) 2 121, 140 15. 111 5, (1, 10, 11, 13, 30, 42 11., 127, -= 2...,



Machine cyphels

Machine for decoding Japanese traffic Machine for solving American strip Manchurian code book Manchurian systems Menning, Herr Methodology, cryptographic Monoalphabetic substitution, American Müller, Dr. Multipurpose machines 8, 19, 15, 46, 111-119n, 129, 131, 160, 163 163 144 179 10, 178 10, 178 6 61 174, 181, 192.5

144, 147

N

Near Eastern countries	164
Neofascists, Italian	25
Norwegian traffic	182
Number finder	145
Number punchers	144
Nummensucher	145

0

R

#### OKI

OKW Chi, organization of - , successes of - , relations with '.ers.ZS' OKW Forschungsabteilung OKW interce?tion stations Olbricht, Dr.

'One-sided exchange' One-time pad, Czech - , Russian

Pannwitz, Frl.Dr. Partison troffic Paschke, Dr.

Paschke, Dr. Paschke, Dr. Pergamon Huseum Persion systems Pers.78 -, organization of - as at one of 1940 -, relations with ON: -, strength of Pers.2s interception station Polish systems Parague ProDROFE

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LUCJ_ LUFILL III		-, ]., , ].,	
- , aurien	n syster:	1., 1.29	
🔺 , 'elgian		157	
- , arit :	figure systems	96	
- , Chinese	systen	50	
- Jajanes	e .	136	
- J: panese	. "Henny rt-Cole"	63	
- , Lonchury	ian	175	
- , Polish		135	
- , Russi:n		1.20	
- , Swiss		161	
oferent		77	
Remainstion in Bulgar	inn systems	73	
Re rolucers		]. /4/4-	
Results, communication	of	39	
Libbontrop		6	
Rivalry, interadportner	ntal	33, 50, 56, 66, 67, 101	
Rohen, Okerregierungsr		84	
Rehrbach, Professor Di	•	2 ff., 42, 48, 65, 127	

- - - - -

Rowannia, use of Hagelin machine by Russian diplomatic one-time pad Russian systems

. S

Salzburgverfahren Scanlinavian systems Schauffler, Oberregierungsrat

Scherschmidt, Oberregierungsrat Schimmel, Frl.Dr. Schimmel, Frl. 'Schriften des Sonderdienstes' Schroeter, Dr. Schultz, Dr. Schultz, Dr. Scourity of Gurann systems Sclohow, Geschiter

Service cystems Shift working Shownic cychers "Confermionst" Confermionst Westernets Z in for ersonichteilung des Auswärtigen imtes Continue schipen Coult Efficie government Coult Efficie government Continue cohires Confish ay bers Confish ay bers Confish ay bers Confish ay bers

tralla ilun

45 120, 121 16, 120, 121, 122

168  $l_{\rm FO}$ , 131, 152 5, 0, 10, 20, 71, 111, L. P. . , L. . D Lugi . . . المعالية الم 8 120, 135 ff. 125 ff. 70 5, 0, 10, 54, ..... 1. pp. 7 56 102 30, (6 ------113 23 =13 2? 1.1., 117 1.41

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T

IJ

 $\mathbf{V}$ 

Z

Tabelliermaschinen D 11 Theoretical research Translation of decyphered texts Transpositions, use of machinery for solving Treuenbrietzen Trilingual book, Swiss Turkish diplomatic traffic Turkish systems U.S.

144

8

74

22

7

78

32

Lpp.B

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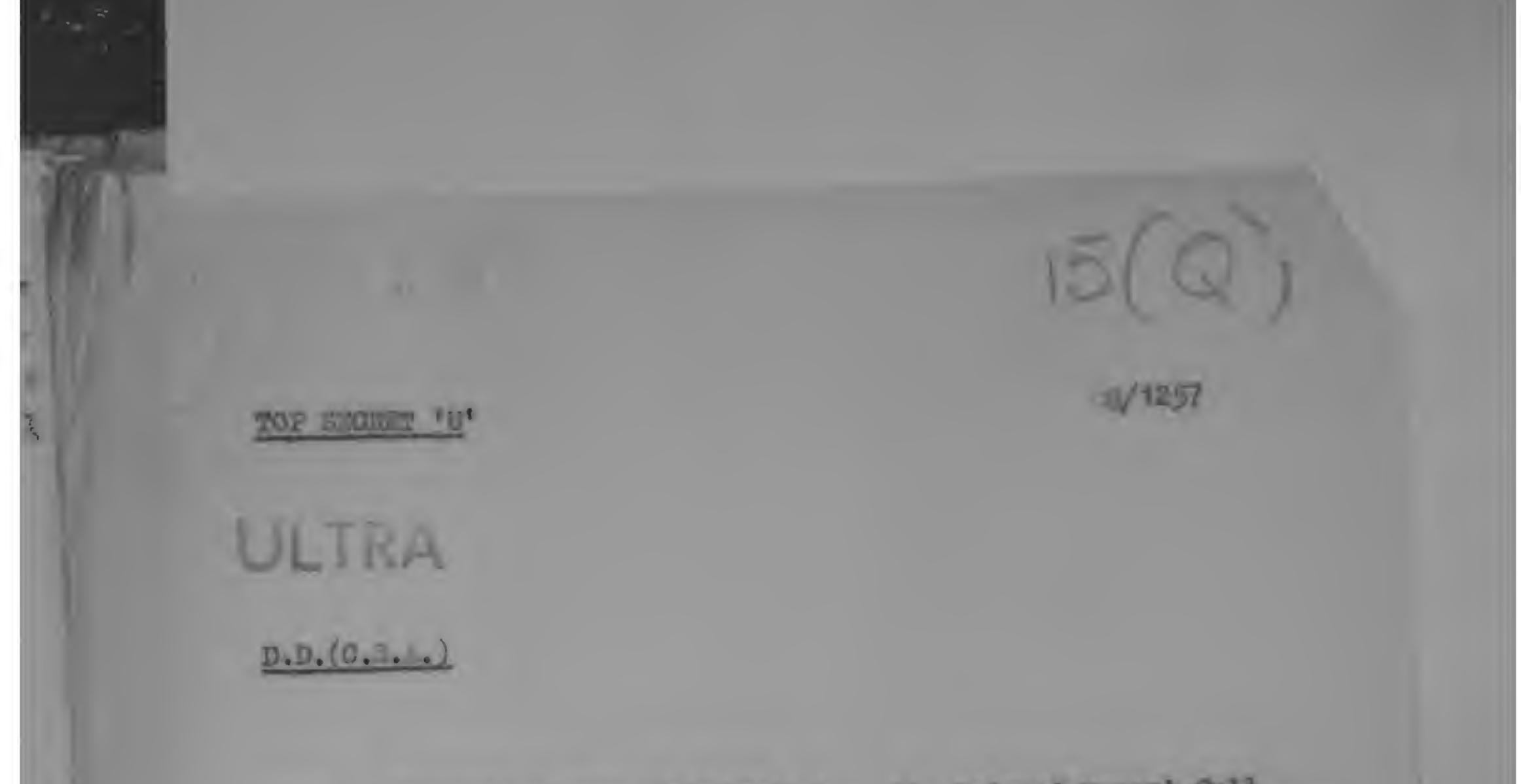
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Weather cyphers, British Wehrmacht, liaison with Weizsäcker, von Wernick, Frl. Women, position of - in organization

Zastrow, Dr.

'Z' department of OKW Chi Zschepplin 30, 79, ff., 183, App.A, App.B 53 24, 41c





Herewith a copy of TICOM/I.1. It. Colonel Wyars' full report of the emploitation of BURG and the lers. L.S. cryptographers.

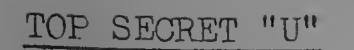
The reference to lack of linison with other bureaux (page 11) has been confirmed.

The information about Coering's Forschungsomt (pages 17 and 16) is helpful and we may eventually get held of SCHRODER, MACHINE and PATTER.

Reference page 29, doubtless M.M.C. will be receiving before long some general, and perhaps specific, requiseds from the Russians regarding German Sigint captures.







2

FINAL REPORT

of

TICOM TEAM 3

on exploitation

of

#### BURGSCHEIDUNGEN

# TICOM 8 June 1945

### Distribution:

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# FINAL REPORT TICOM TEAM UNDER LT. COL. EVANS AND LT. COL. NEFF. (TEAM 3)

#### INTRODUCTION

-1-

This report is divided into the following sections:

1) General History; 2) Administrative History; 3) Exploitation of Subsidiary Targets; 4) Interrogation Report; 5) Documents Report; 6) Report on Hollerith Equipment; 7) Report on Security Measures; 8) Summary and Statement of Unfinished Business.

1) General History.

The main target at BURGSCHEIDUNGEN (BURG for purposes of this report) was passed by the American line of advance about 13 April. The village is a small one, and there was no fighting in it. Except for possible scattered parties moving through the village, the first American Army man to visit the village and the Burg itself was 2d Lt. Alfred G. FENN, Military Government, Kreis Querfurt, Provincial Detachment No. 14, First U.S. Army. Lt. FENN visited the Burg about 18 April and interviewed the owner, Graf von der SCHULENBERG, using Fraulein FRIEDRICHS of the Foreign Office group as interpreter. Lt. FENN learned on this visit that there was a section of the Foreign Office at the Burg, but Fraulein FRIEDRICHS was evasive about it, and the point was not pressed. Lt. FENN had no forces at that time to occupy or guard. He however, was sufficiently impressed to return for further information about three days later, and on this second visit Fraulein FRIEDRICHS and ROHRBACH requested a private talk with him. In this talk they informed him that they were the cryptographic section of the

Foreign Office and that they were prepared to discuss their work with appropriate persons. Lt. FENN handled them gently at first and extracted the whole outline of their work from them. At the end he warned them that now that the existence of the unit and its files was known, any destruction of files would be punished by death.

Lt. FERM put his findings into a lognest to big superiors, C-5, V Corps, and his report was passed to Col. CLEAVES, Signal Officer, V Corps. Col. CLEAVES visited the Burg himself and covered about the same ground with Praulein FWIEDRICHS and ROHRBACH. On 24 April he communicated by telephone with Director, SLD, EFOUSA and at about the same time a guard of the 402nd Cavalry Regiment was posted at the Burg with the principal aim not of restricting the persons within but of preventing the target from being disturbed by friendly forces or liberated plave workers. On receipt of this telephone call Director, SLD, ETOUSA, while notifying war station immediately named a team of personnel then available at Paris, headed by Lt. Col. Paul E. NEFF, SLD, ETOUSA, and Lt. Col. Geoffrey EVANS, Intelligence Corps, British Army. (Full lists of personnel in Appendix A.) This team. left.paris on 25 April and went by car via Verdun, Wiesbaden, Weimar, and Nausburg (successive HQPS) to the target, arriving on the morning of 27 April.

-2-

The team found the target apparently intact, and the personnel all present. (Full lists of German personnel in Appendix B.) Lt. Col. Evans promptly began interrogation of key personnel, while other members of the team began the examination of documents and conducted interrogation of minor personnel. At the same time arrangements were completed for quartering the team in the ample space available at the Burg.

1

From the first the members of the team tended to undertake specialties and to assume responsibilities in particular fields. It. Col. NEET handled signals and major matters of policy, which involved a daily 35-mile run to Pirst Arey Headquarters at Weimar. It. Col. Invans handled interrogations and marshalled the facts arising therefrom for appropriate action. Pajor BUEDI was primarily concerned with records of the party, with documents in conjunction with Sgt. LORAF, and with security measures. Capt. Acci.TYTE: was responsible for whiches are retions, and

both he and Capt. ADATT had a large share in field trips to additional targets. SAt. TARX specialized in dealing with the Germans of the surg and the village, not also participated in field trips and in matters calling for his excellent command of the henguage, the last being true of Sgt. LORAM as well. And last but not least Opi. SCHEMBEL, whose knowledge of Allied systems did not apply to the target, the himself invaluable as the inlefatigeble cook for the team.

On 28 April Lt. Col. NEFF and Capt. ADAMS, by dint of smart detective work and a brisk car chase, located and took custody of PASCHKE and KUNZE, actually removing them physically from the truck in which they were headed for the First Army POW cage. The original arrest of these men had taken place at Zschepplin about 26 April, and was a tribute to the prompt work of Col. CLEAVES, who had learned of their importance in his conversations at the Burg. The men were brought directly to the Burg and interrogated by Lt. Col. EVANS.

- 3-

On the same day Lt. Col. EVANS completed his interrogation of the Burg party, with particular reference to additional targets of OKW and the Military services. Further work on the documents was done, and in the evening OSLU was

drafted, reporting progress and emphasizing the desirability of air evacuation.

The following day, 29 April, was spent in work on the documents, a visit to Halle/Nietleben, and efforts to arrange transportation for the material and personnel to be evacuated. This first visit to Halle/Nietleben, was fruitless, but the transportation efforts began to bear immediate fruit in the shape of a command car, and with the supplements that arrived in later days from various U.S. Radio Intelligence companies the work of the team was not hampered hereafter for lack of this.

Except for documents and a full interrogation of PASCHKE and KUNZE, 30 April was also spent largely in contacts and admin. The contacts, with VII Corps, were essential as this Corps controlled the area of Zschepplin and very shortly after this assumed from V Corps the control of the Burg area itself.

On Tuesday, 1 May, while Lt. Col. NEFF wrestled with the problems of

air evacuation as by then planned for Thursday, Lt. Col. LVANS and Capt. ADATS made the first trip to Zschepplin. They spent the entire day there and gathered all the facts of the situation. BRANDES, GRUNSKY, and ZASTROW were taken into custody and brought to the Burg, and the trailer of Hollerith ...achinery was located and a guard arranged by the co-operation of the 104th Infantry Division.

Wednesday, 2 May, was marked by the initial visit to Muchlhausen of Capt. ADALS, who brought yet another captive back with him in the person of ROY. It was quickly realized that he was not quite in the same boat with the others, and he was segregated from the first. Otherwise the day was notable for the arrival of Lt. STRIBLING with the heavy transportation which handled the team's main requirements from that point on.

-4-

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The next two days were heartbreaking for all members of the team. Arrangements for air evacuation had been completed, Major CADDICK had duly arrived on Wednesday night to act as chief courier, and the material and documents were duly brought to points at and near the field at the proper time. The only hitch was that, because of real or fancied misgivings about the weather, the planes did not leave Peris on either day, and those responsible for them took no steps to notify the team of their non-departure. In order that they should not know that they were to travel by air the personnel were taken only to the outskirts of Kolldde, and it is unlikely that the field ration pionics by the roadside will be soon forgotten by Capt. MacINITYRE, who on successive days here the burden of escort while the rest of the team waited helpless and frustrated at the airfield. It was therefore with some relief that Saturday morning brought word that the flight was postponed until Monday because of continuing bad weather.

The interval was used for successive visits to Zschepplin on Saturday and Sunday, the 5th and 6th. On the first day admin matters were cleared for the arrest by Counter Intelligence authorities of all the remaining operational personnel, plus the wives of some of those already held. The return trip accordingly found a bag of some forty civilians being held, and seven of these were brought to the Burg on the night of the 6th to be evacuated by air. Some documents and material were

also brought, though the bulk had been destroyed. The two days had been used meancheck while to make a security of the whole of the Burg, and to winnow from the re-

maining non-operational documentary material any items of incidental intelligence.

Plans were also made for security measures against the Russians, and in particular

Lt. Col. NEFF succeeded in arranging for the evacuation to Marburg in the eventual American area of all possible civilians with whom the team had been in contact.

The air evacuation finally came off on Monday, the 7th, at 1500. In fact the delay, while extremely trying and potentially dangerous to the smooth co-operation of the Germans, had the good effect of allowing all important personnel to be sent at once rather than by a later trip. In any case the oft-rehearsed routing did not fail, and the departure of the planes carried with it the end of the major intelligence-gathering work of the teau.

-5-

There remained the Hollerith machinery at Zschepplin, and possible material at Halle/Nietleben, Muehlhausen, and Arnstadt to investigate, and a major logistical problem to solve in the transportation of more than 50 persons and over 200 file cases out of sight of the Russians.

The Hollerith was disposed of on VE day, 8 May. Major Adams, who had arrived from Paris the preceding day, examined it thoroughly and extracted key parts. The remainder was left in the trailer and the whole towed to a vacant field and demolished beyond recognition by the efforts of the pioneer infantry of the 104th Division. As if these fireworks were not enough in celebration, the entire party ended that evening by drinking the local wine from the Graf's tablecloths in the Festsaal of the Burg, with appropriate toasts and additional fireworks with materials available.

On Wednesday the 9th the first convoy of Delitzsch civilians was despatched to Marburg, and Lt. Col. EVANS and Major BUNDY investigated the Halle/ Nietleben target with largely negative results. Thursday, while the convoy was returning to reload, Lt. Col. EVANS and Capt. ADALS investigated Juehlhausen, while Capt. MacINTYRE tried and failed to find anything at Irnstadt. And on

Friday the Burg civilians were taken to Marburg, the guard was relieved, and the exploitation completed except for checking and reporting to various headquarters as the team returned to Paris. Major BUNDY, with a last truckload of material, arrived there on 13 May, while the remainder of the team arrived on the evening of the 14th.

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3) Subsidiary Targets.

- 6 -

a) MUEHLHAUSEN

This target was visited by Lt. Col. EVANS and Capt. ADAMS on Thursday, May 10. The first action taken was that of depositing Dr. ROY (see interrogation report) at his house, having first obtained from him a complete list of all Pers Z Gen and Pers Z S people who had come to MUEHLHAUSEN from Zscheppelin(Doc K). At the same time I told him to get hold of Dr.GERLACH, who seemed to be the most important of those left. He proved however to have played only a quite minor part in the organisation and I let him go.

The four locations given us for Pers Z Gen and S material

Amtsgerichtsgebäude

Deutschritterschule

were:

Fritz Sauckelschule

Railway sidings (trucks).

The first of these was the only one which yielded any fruit, and very little at that. There were four green safes of the regular Pers 7 type - empty. (Instructions loft with C-in-C to dispose of these). Also a certain amount of stationery and a few addressed envelopes. But nothing else.

The Deutschritterschule, given as a location by Dr. GERLACH, was found to have been used by other sections of the AUSWAERTIGES AMT evacuated to M. And a mission from G.2 Shaef, under Lt.Col. SPENCER (Brit) and Major WEISSENBERGE(US) had put all rooms under look and key. We managed however to find the appropriate keys and obtained access. The documents, which were very numerous, were all of the Ausw. Amt but none of Pers Z or Z.S. We therefore locked up again and went to the Sauckelschule. Here there were two rooms with Shaef notices on and for one of these the key could not be found. However the other was material of no Sig. Int. importance, and I think it unlikely therefore that Pers Z. S. material will be found. If it is, the office channels should bring it to us in due course.



- 7 Finally the railway yards were filled with some 3 or 400 waggens, many looked It was a task quite beyond our time or means to go through these, for material which might or might not be there. We spent nearly an hour on three train loads and found chiefly machinery and G.I. clothes. As all statements have agreed that in any case only personal effects were in these waggens, I think this chese can safely be abandoned.

b). Halle/Nietleben. Heeres- und Luftnachrichtenschule.
Two OHL Sootiene were overeusted into three buildings.
a). A party of Pers Z. S. who subsequently moved on to Zashoppelin.
b). A party from OKW/CHI from Berlin. These numbered some 20 people

and the senior man was Obltn ADL R. They worked in Baracke 10 H

and Stabsgebaeude 80.

These two buildings were found to be opposite each other and occupied respectively by a supply company and a group of American ex Prisoners of War. Frior to this occupation the buildings had alroady housed elements of the infantry who first freed the area. The chances of finding anything were therefore extremely slender, and though it was impossible to go through Stabsgebaeude 30 room by room, it can be taken that nothing of interest remains there. All that was discovered was a pile of "Secret" stationery belonging to CKW CHI (samples herewith). This was in a cupboard in the basement and was removed in toto. A list of the names of the people known to have been here was left with C-inC. 7th Corps and they have undertaken to pick these people up for us.

It is worth mentioning that the Heeres u. Luftnachrichtenschule is a vest complex of buildings, meny of which are stacked high with electrical apparatus

of every sort. We brought every a few papers from one room to indicate the kind

of thing that is to be found. If the appropriate authorities are not already

eware of this target, action should be taken fairly soon, as hundreds of ex P of

and the second second to the second second the second seco

W drift around all the time and take what they like.

and war -

# c). <u>Bad Berka</u>. <u>ARNSTADT</u>.

i

Information had been given that there might be trucks of Pers Z. S. material in the Railway yards at these two places. An exhaustive search was carried out by Capt. MacINTYRE and nothing found.

- 8 -



# 4). INTERROGATION REPORT

-9-

Interrogation throughout was conducted in Ger. an and had as its sole object the eliciting of information about the location and scope of further targets, and the names and likely whereabouts of individuals concerned with them.

Out of it arose:

- A fair number of new targets of varying size. a)
- b) A large list of names.

A general picture of the organization both of "Pers Z.S" and of **C**)

other kindred organizations.

This report falls into two parts. (1) An account of the form the

interrogations took and the occasions on which they were carried out. (2) The information derived under the three headings listed above.

# 

## April 27

On arrival at HQ V Corps, U.S. Army we contacted Col. Cleaves, Signal Officer of the Corps, upon whose initiative the target had been held and "frozen" pending our arrival. We proceeded at once to Burg S. and were met at the head of the stairs by the senior members of the German party. Col. Cleaves introduced us in English using as intermediary Frl. FRIEDRICHS, a fluent English speaker. The senior members were:

ORR SCHAUFFLER - Head of line section

# Prof. Dr. ROHTBACH

Dr. HIRSTIEN

### Frl. FRIIDRICHS

They handed us a list of those present in the castle and expressed their desire to give an account of their work and organisation. We sat down at once therefore round a long table, and Dr. SCHAUFTIER, prompted by the others, outlined the organization of "PERS Z. S" that is, the Cypher-brecking section of

-10-

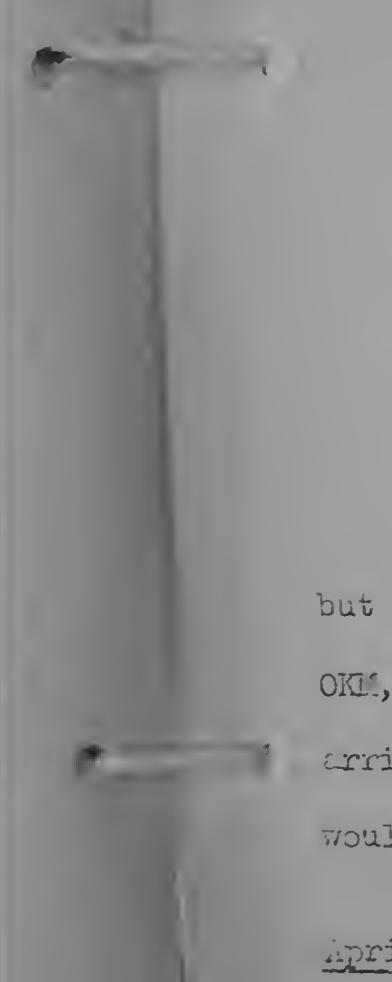
the Foreign Office.

The facts given at this session were later drawn up on paper and

presented to me by Dr. SCHAUFFLER (Doc 1).

In the course of the rest of the afternoon I interviewed the leading members of the party separately. Besides those listed above these included:

Dr. OLBRICHT



Dr. MUELLER

Hr. GROSSE

HIERER

RAVE

SCHROEDER

Frl. SCHRADER

All were entirely co-operative in giving information on their own work but seemed remarkably ignorant of the work of associated sections - OKH, OH, OKH, etc. I formed the opinion that they had had a conference prior to our arrival and had decided that they would tell all they know on their own field but would hold back on anything to do with Wehrmacht.

April 28

Acting on the assumption that the German party were holding back on their knowledge of hindred organizations I called 1 rl. FRIEDRICHS and explained to her

that their account of their own organization was excellent, but that I was astonished at the lack of lisison between them and their collergues in associated departments,

and would like a fullur account of this. I told her to put this print to their

senior members and come back to see me in a few moments. She returned very chortly

after with Dr. RCHPB-OH and the gist of what they caid was this:

The lack of liaison was indeed remarkable and to them had always been a matter of regret and vexation. But the fact was they they kept strictly to themselves, as did also each kindred department, partly for security reasons, partly from interdepartmental jealousy. Dr. ROHRBACH then assured me that they were perfectly willing to try and get together a concerted picture together of the sum total of their knowledge in the respect demanded, and asked me if I would agree to having a round table talk after lunch, instead of questioning them individually.

-11-

I agreed to do this.

At this conference, which lasted most of the afternoon, were present: SCHAUFFLER, ROHRBACH, KARSTIEN, FRIEDRICHS, GROSSE, HIERER, RAVE, SCHROEDER. The four latter were brought in as having worked into OKW/CHI. From this conference a great deal of extra information was forthcoming about OKW/CHI, and a certain amount on other CHI organizations. (See Part II of this report).

My view at the time as to the attitude of the German party was that originally there was an intention to stick to Foreign Office matters, but that this was abandoned as soon as they saw that they were going to be pressed to go beyond the point.

In the evening about 7 o'clock Col. Neff arrived with Drs. PASCHKE and KUNZE whom he had managed to trace after a good many vicissitudes and adventures. I at once interviewed these two and found them quite ready to help, though extremely tired after a day of travel. I left them for later interview but asked them to let me have by the morning a list of all personnel serving or

having served under them with locations as far as possible. This was handed to

me the next day (Doc C).

#### April 30

The morning was taken up with an interview of Dr. PASCHKE and KUNZE. They were completely co-operative and added a great many personalities to the list of those already secured, at the same time clarifying the organization of the whole. There is no doubt in my mind that PASCHKE is the most effective member of the whole party, while SCHAUFFLER, who is on the same level of seniority, is more the "absentminded professor". This view was confirmed later in the afternoon of this day when Dr. ROHRBACH (who has throughout been the "Wortfüchrer") came to ask if he could borrow back the original table of organization drawn up by SCHAUFFLER (Doc A) in order to emend and amplify it under Dr. PASCHKE's guidance. This they did and the result is Doc B. The difference between the two is to be understood as the

-12--

difference between the full peace-time set-up of the office (B) and the emergency set-up resulting from the vicissitudes of war (A).

On the evening of the 4th May I was approached by one of the subordinate office workers, Frau SCHADEWALDT, who claimed that Dr. PASCHKE was exerting his influence against co-operation with us; she alleged also that he had reproached Dr. ROHRBACH with his failure to destroy their documents and finally that he had been in with the Party and possibly a member. Acting on the assumption that this information was substantially true we put PASCHKE under separate detention, in which he remained until his time to set out for the airfield. On the evening of Saturday, May 5th, I had an hour's talk with him, in which, without mentioning Frau SCHADEWALDT or any specific source, I suggested that his attitude was less co-operative th on the others and left something to be desired. He denied firmly that he had in fact brought any pressure to bear on the others in the direction suggested, and gave the following account of his position: he had the choice, when captured, of two courses - either to maintain complete silence or to accept the inevitable consequences of Germany's defeat and to adopt

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the attitude which is accepted in such circumstances as honourable and which is
characterised as "Loyalität". This word corresponds in meaning to "loyalty" only
in so far as it implies the faithful carrying out of conditions imposed by force
majeure, and it indicates the same kind of attitude as that of the prisoner of war
who gives 'Parole', but covers a wider sphere of action.
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He added that the only respect in which he could consider my sufficiention to have justification was in his feeling, as a former officer, that they would be wanting in self respect if they came rushing "mit fliegenden Fahnen und offenen Armen" into our camp. He did feel, he admitted, that a certain reserve of personal behaviour was appropriate so long as the war was still being fought, and he mentioned that in this respect he had suggested to the others that, as non-fratornisation was the order on the Allied side, then it should be the same on their side too. Summing up I would say that PASCHKE will co-operate fully in so far as knowledge which is available is concerned, but that he should be questioned exhaustively on matters which he as the senior man will have and the others not.

The work concluded with the interrogation of Dr. ROY (May 9). This

-13-

man was head of the Personnel Department of Pers Z office and as such was concerned with administrative problems for the whole office, not merely Pers Z.S. He claimed that his connections with Pers Z.S. were slight and that he had no special knewledge of their work. On the other hand it is of course clear that he knows what their work was. I had had a short interview with him on the evening of his arrival from Muchlhausen (April 28) and found then that he was not specifically a Pers Z.S. man. We decided then therefore (acting on the lines indicated in OLSU/ ) to drop him back in the pond at the earliest possible opportunity. Pressure of the work made this impossible until Friday, May 11, and on the morning of the 7th I took the opportunity of a full talk with him.

He was a good deal firmer in his attitude than the rest have been here, but ultimately gave a quite useful picture of the organisation of Pers Z. showing the position of Pers Z.S. in the whole. (see below). He also provided a complete list of all those members either of Pers Z. Gen (his section) or of Pers Z. 3. who found their way from Zschepplin to Ruelhausen. (Doc K). In the course of a one

day visit to Muhlhausen I sought out one of these (Dr. CERLICH) and a brief

talk with him. He was in KUNZE's party but seemed to have played no outstanding

part. I therefore let him stay where he was. If it is desired to follow up

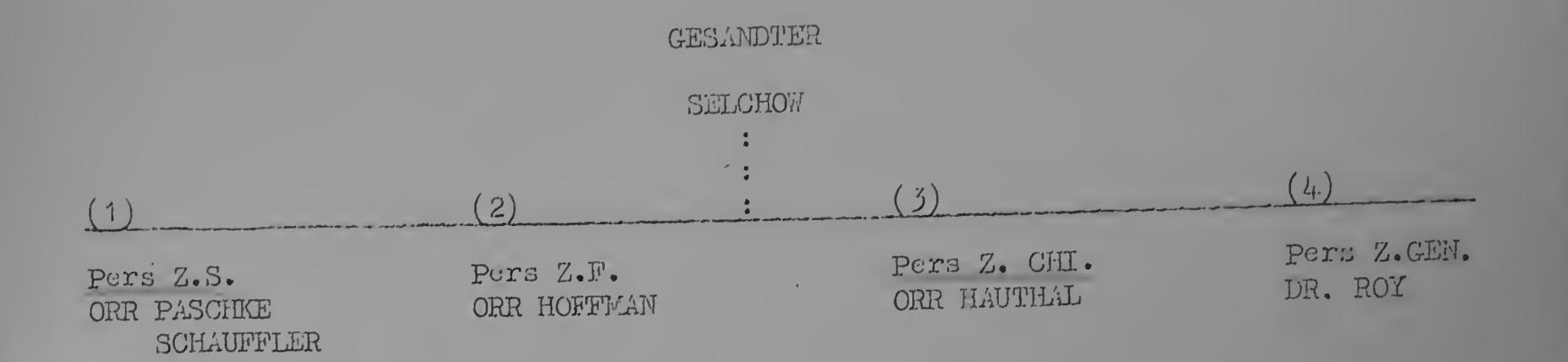
the Muchlhauser contacts this can be done in due course but I do not think that

there is anything of note to be added to our knewledge by so doing. (See separate report on Jucklhausen visit).



Abtlg Pers Z was formerly Abtlg I (Eins) of the Foreign Office, i.e. the normal Admin Section. Acquiring work of Pers Z.S. type it changed its name, giving cipher work the general cover of a "Personell" Dept. It is divided thus:

-14-



(2) Concerned with all questions of communications-telephone, T.P. etc.

- (3) Concerned with production of Foreign Office own cyphers.
- (4) Concerned with Personnel and Admin problems for the whole.

## General Observations:

The question that naturally suggests itself is: Why did these prisoners all talk so freely? The answer is partly to be found in the course of events leading to the discovery of the whole party. (See first page of the General History of Events). And might be summed up as follows:

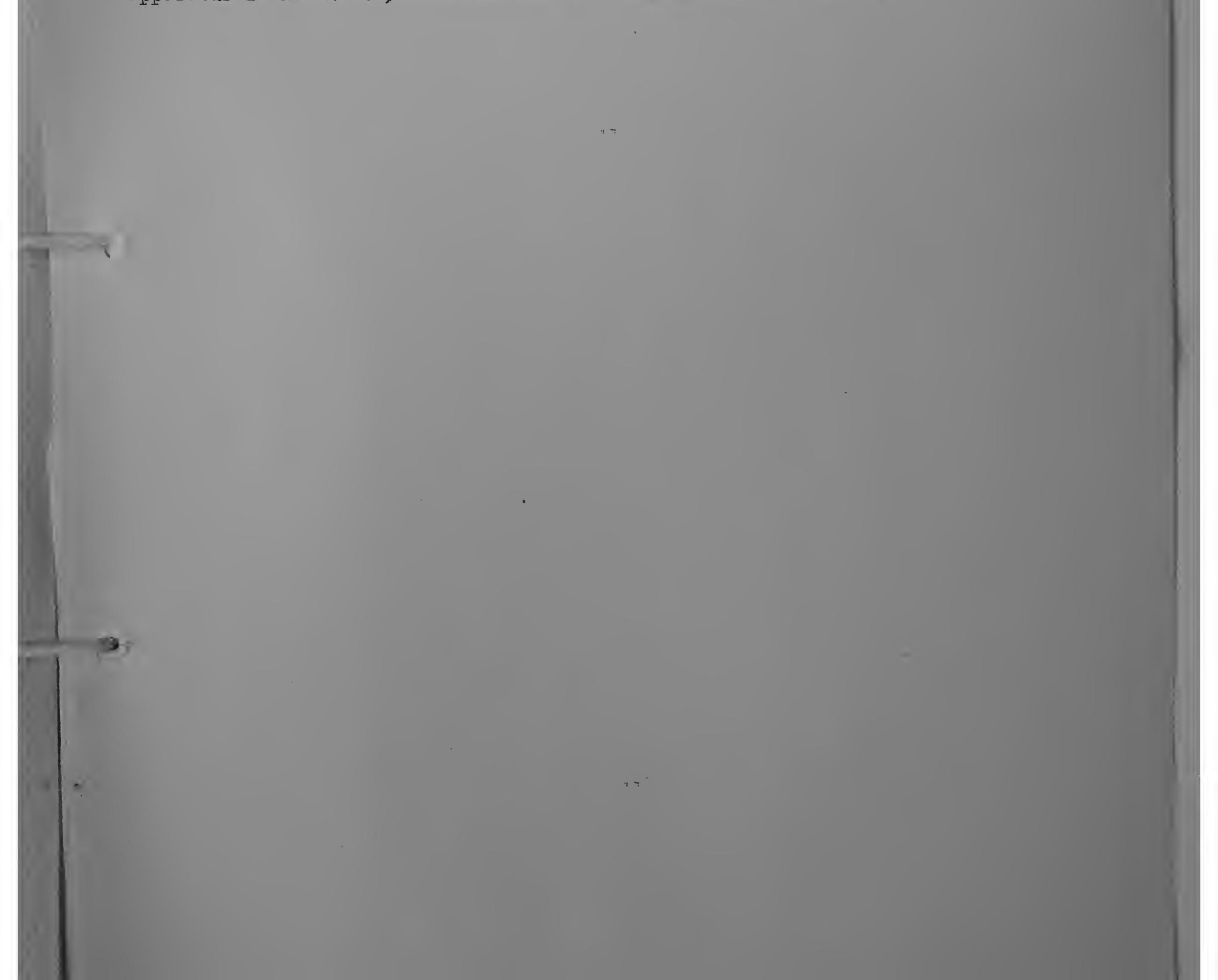
(1) Desire to be considered as scientists, having a pride in their work, and prepared to share results with other scientists in the same field, as is done in medicine, etc. This viewpoint was strongly put by ROHRBACH.

(2) "Germany is no more. One cannot harm what does not exist". These were SCHAUFFLER's opening words at our first session. They indicate the lines on which the members have cleared their consciences in regard to breaking the oath of secrecy.

(3) Foar of the Russians.

(4) Besire to improve their present position, got in well with us, retrieve something out of the disaster. My approach to the prisoners has been friendly throughout - with a short break when insisting on more information about OKW - and I think more can gained by maintaining this attitude than by adopting a formal or threatening one. I would suggest that ORR SCHERSCHMIDT, who is at present somewhere in regular PW channels, be kept separate from the others until all are together where microphone apparatus is available, and that then full use be made of this.

-15-



# II

-16-

(including Ticom Targets already NEW TARGETS  $\mathbb{A})$ known)

#### Pers Z.S. (Auswärtiges Ant) 1)

These have all been cleared up now with such exceptions as are noted

in the Reports.

2) OKW

This SigInt organisation, originally situated in the Haus am Runden Platz, Potsdamerstrasse (no mention of Wilmersdorf) had up to 400 people, and was largely concerned with diplomatic material. In spite of this, liaison

with Pers Z.S. seems to have been very slight. The bulk of the information supplied is available owing to the fact that a) Paschke is a senior enough official to know something of other organisations b) there were 4 members of OKW on attachment to Pers Z.S. at the time of capture. Besides the main offices there was an office in the Margarethenstrasse near the Potsdamerstrasse, and a house out at GRUENEWALD.

Targets from this complex are:

1. A party under Obltn ADLER, which evacuated to the Heeres nachrichtenschule NIETLEBEN near HALLE (See Doc G). See Section 3 of this report. There was talk of CHIEMSEE as location for a main move. This would 2. probably imply the Fraueninsel, an island in the middle of the lake with a large monastery on it.

Other reports mention TRAUNSTEIN; but cvidence here is very vague. 3. It is possible that Dr. HUTTENHAIN, machine specialist for OKH, and 4. his party were with ADLER at NIETLEBEN, (See Doc G)

#### 3) OKM

- went to Panzergrenadierhaserne EBERSWALDE (confirmation of Ticom location). Names of senior cryptographers were: Oberregrat FRAIKE and DR. TRANOW.

# 4) OKL

1) POTSDAM location confirmed.

Specialist for American/English given as: Regiorungsrat VÜGELER His department thought to be about 30 strong. Also in the dept.:

Herr VOERMANN (cousin or nephow of the Ambassador).

2) The existence of a rival SigInt Luftfahrtministerium organisation, under GÜRING's control, is stated. It has the title FORSCHUNGSAMT and was situated in CHARLOTTENBURG. For names and general set-up see Main Section C of this Report. KAUFBEUREN is mentioned as a possible present location.

-17-

OKH

5)

JUTERBOG location confirmed. Only very few names known, as follows: BEILOWITZ, KOCHENDORFER, STEINBERG, (later under Hütterhain at Okw), METTIG (admin. Officer, later to Okw) Insp KUHN (only a recruitment officer)

# 6. Gesandter SELCHOW

- head of the whole organisation since 1919, last known to be in SALZBURG, sent instructions on the Friday after Easter mentioning move to BREGENZ. A waggon of his personal effects was found in the Courtyard of the Castle of Zschepplin. These were looked through carefully and no papers found.

# 7. <u>Y-Stations</u>

In charge: Oberstltn KAHLER

The following were given:

CHI <u>111B</u> BERLIN: formerly in charge of Prof. Dr. PONSCHAB.

TREUENBRIETZEN - west of JUTERBOG

LAUF - near NURNBERG

DAHLEM - known as "Landhaus D", only few sets. LÖRRACH - in Baden

# Under Forschungsamt:

C)

B - BRESLAU, LEBA, LUBBEN, TEMPLIN Also external stations at MADRID and PLOVDIV.

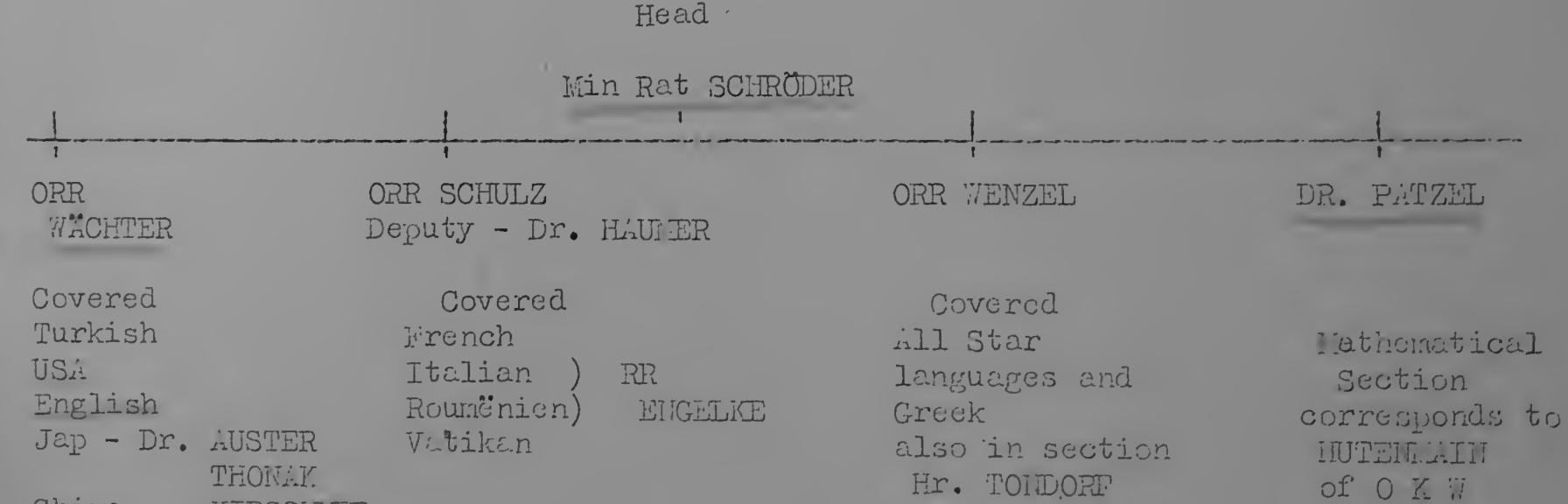
#### Outline of Organisation of Pers Z.S. 1.

The best picture of this, together with names of personalities is given in Doc B. Compare also with Doc A, which is, however, not accurate.

-18-

Outline of FORSCHUNGSAMT Organisation 2.

This organisation which was controlled by GORING and came under Luftfahrtministerium was at first in the Schillerstrasse Berlin/Charlottenburg; then moved to Breslau; where they were in the Hartlieb Barracks; then to Juterbog; finally Southwards. The suggested ultimate location is KAUFBEUREN, but this is by no means certain.



China KIRSCHIER Ireland Spain Portuguese

PR LEHR (Hollerith) Tschinter

#### Outline of O K W Organisation 3.

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This organisation, which was situated in the Potsdamerstrasse and was 300-400 strong, is thought to have moved. South to the CHIEMSEE.

-19-

#### Head Titular

Oberstlin

HÖPFNER

(He succeeded very recently to the former head: Oberst KETTLER. All knew the latter, none are very certain of the name HOPFNER. but think that is the accurate form). Previous head to KETTLER was Oberst KEMPF)

Secretary to Head

FRL KUHNERT

Active Head

Min Rat FENNER

	Min Dir Min Dir WENDLAND Sprachl and Philolog	' Oberstltn KAHLER (Y Stns)	Hr. SCHADEL Head of Information-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Oberstltn Kalk tein Austrung	Dr. HUTTERHAIN
	Abtlg  !		Abtlg for Fenner and for Kettler (correspondent roughly to I.E.)	onds'		mathemat. Abtlg.
8	Einzelne Referate Table (A)			METTIG (Admin) (=DD2) also for Pers fragen Major LOBE		l Subordinates in Table (B)

# Table (A)

English/U.S.A.ORR ROHEN Dr.<br/>joinSize 40-50FrenchORR HELMUT Ob<br/>MULLER He<br/>Size 20.BulgarianMin Rat ROTTER<br/>very small

Jugo-Slavia

Min Dir WENDLAND small

-20-

Roumanian

Spanish

Turkish

Scandinavian

Italian

China Japan

Poland

Greek

Major LENSCHAU 6

RR Dr. KIEFER small RR LOCKER Deputy WITTE 10 GEMPERLE

Dr. WEISSE, RR SCHULZ, RR DENKER

M. later in Halle

joined later by a Dr. Petersen

Obltn KUNZE

Herr GEHLING

RR WEVERING 6

ORR RAFFEL 35-40

Obltn ADLER - (Schroten) "largish group"

WHA BERNDT Min Rat SEIFFERT

Switzerland Hr. JUNG-FISCHER

also active on more or less independent footing:

Dr. POSTGEN, BRUCKMANN, RUSING

Griechisch.

Table (B) Bau Rat ROTSCHEID Prof Dr. FRANZ Prof Dr. WEBER Prof Dr. AUERMANN " " WITT

had job of constructing machines. Under him a group of technicians (soldiers)

mathematician. Head section of 15-20 functioned fairly independently went on to HALLE

Specialised in Polish

17

-21-

Mathemat: cian 1)

Colleagues of ROHRBACH

A State State State

# Oberstltn PASSOW

Obltn STEIN

Obltn VAUCK

Ob Insp. MENZER

in charge of supply, servicing etc. of Hollerith.

Agents messages. Links with OKH

worked on French agents' traffic section of 50

worked mostly on his own. Construction of German machines and processes. Constructed machine for Japan (?) Head 4-5 men



22

5). <u>REPORT ON DOCUMENTS FOUND AT BURGSCHEIDUNGEN.</u>

INTRODUCTORY ---- the handling of documents at this target has been affected to some extent by the unusual factors present in the general target situation. The target was taken intact, and the personnel still in it had not used the complete opportunity they had had to destroy all papers. Thus, although the personnel continued to be in the same building, the exploitation was as if they had been removed and was leisurely rather than hasty. The co-operation of files and giving details of the contents for the inventory. (Personnel were not permitted to go through any documents in this procedure.). In view of this attitude the files were not

impounded immediately, but some were left in the work rooms for the first two days. The great bulk were from the first in the locked cellar and were moved from there directly to a guarded room, so that their security was complete.

The total material on hand comes under three heads:

a). Steel file cases, about 4 and one half ou ft. There were altogether
about 170 of these, of which all but 20 XXX were in the locked cellar.
b). Crates of work material. There were five of these in the locked cellar.
c). Personal luggage. There was a very large quantity of personal
luggage, both in the cellar and in the rooms of the Burg.

The German personnel have assured us that all this luggage is in fact personal, and it has not been ransacked for official papers. Had concealment been desired it appears certain that a better method would have been found.

Similarly we have accepted the word of the German personnel that the

material turned over to us is in fact the whole of the working material at the Burg.

To have accepted otherwise would have been to undertake a systematic search of an

enormous building with great facilities to hide material, and of the surrounding

grounds. In addition to the basic fact that the personnel had at least a week

23

before the Burg was guarded effectively, there has been at least one other manifestation of their good faith in the turning over of an overlooked file oontaining moderately important material and of moderately important work notes left lying on a table and also overlooked.

The documents were examined rapidly on the first day and numbers Procedure chalked on those stated to be work material by Frl FRIEDRICHS and Dr. ROHRBACH. Only a few of the files were opened at this time.

In succeeding days the files in the cellar were taken up systematically to a guarded room upstairs and there examined. Only those files were excluded which contained material of an entirely personal nature and hardly likely to relate to work, such as clothing, food, rugs, etc. After the first few these were not ran-

? acked. Files containing personal letters and books were looked at more thoroughly, and in some cases personal documents, especially if adm.nistrative, and personal books, especially if related to linguistics, were removed to another file and noted. The problem of selection in such cases is not any easy one, and it is possible that mistakes were made. However, it was noted that with the one exception of of the files of BRANDES there was never any mixing of personal and work documents other than reference works and dictionaries. On the evidence of Herr PASCHKE'S effects as found at Zschepplin it appears likely that the files containing personal effects were actually kept in private dwellings and not in the office at all.

There were no keys for two sets of locks, and these had to be broken. The contents were transferred intact, except as noted, if found of interest, to an empty or personal file with a good lock.

In a few cases, specifically the files of PASCHKE, Frl SCHRADER and Dr. KARSTIEN and the files located in the large work room, the file was opened in the

presence of the person to whom it belonged. If it contained work material this was

described, leading to a considerable saving of time.

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In a few cases a file contained only small items of potential value and
these were removed and placed in another file and a note made in the blue register. No
single document was altered or partially removed.
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## 23

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Procedure The documents were examined rapidly on the first day and numbers chalked on those stated to be work material by Frl FRIEDRICHS and Dr. ROHRBACH.

Only a few of the files were opened at this time.

In succeeding days the files in the cellar were taken up systematically to a guarded room upstairs and there examined. Only those files were excluded which contained material of an entirely personal nature and hardly likely to relate to work, such as clothing, food, rugs, etc. after the first few these were not ransoked. Files containing personal letters and books were looked at more thoroughly, and in some cases personal documents, especially if administrative, and personal books, especially if related to linguistics, were removed to another file and noted. The problem of selection in such cases is not any easy one, and it is possible that mistakes were made. However, it was noted that with the one exception of of the files of ERANDES there was never any mixing of personal and work documents other than reference works and dictionaries. On the evidence of Nerr FASCHKE'S effects as found at Zachepplin it appears likely that the files containing personal effects were actually kept in private dwellings and not in the office at all.

There were no keys for two sets of locks, and these had to be broken. The contents were transferred intect, except as noted, if found of interest, to an empty or personal file with a good lock.

In a few cases, specifically the files of PASCHKE, Frl SCHRADER and Dr. KARSTIEN and the files located in the large work room, the file was opened in the

presence of the person to whom it belonged. If it contained work material this was

described, leading to a considerable saving of time.

In a few cases a file contained only small items of potential value and

these were removed and placed in another file and a note made in the blue register. It wingle locament wis altered or partially removed.

In the end the process of selection narrowed down the files deemed essential to 73, and these, plus the 5 crates, constitute the <u>first shipment</u>. <u>Priorities</u> After the necessarily hasty examination of all files it appeared that there were none of such immediate vital interest as to deserve special handling at once or an attempt to evaluate the contents if delayed.

- 24 -

Two priorities were assigned, A and B. In the case of Pers Z.S. documents containing cryptographic work this was based on a rough balance of skill apparent, importance of the country so far as known, and recent date. More difficulty was experienced in grading the Pers Z. files, non-cryptographic but <u>gehei</u>m and looking potentially valuable, and many of these were given an A. The packing crates were all given A as three contained onetime pads, and it was thought that all should be handled ogether. It was thought that the files would be shipped at once in any case.

<u>Records</u> In the first hasty examination some files were given chalk numbers, and these numbers are the basis of the list in the first blue notebook. The use of chalk was unfortunate, for when the files were moved upstairs systematically some of the chalk numbers rubbed off, and new numbers, in sticky paper labels, were given to some cabinets, leading to black numbers in the original series derived from the obalk numbers.

The blue notebooks were the first systematic record and were intended to cover every file. However, in the end many empty files in the cellar were omitted from the total, and some of these were in fact substituted for original files which had been jimmied. (Notes being made in the blue notebook when this was done).

After the documents for shipment had been selected a second and somewhat briefer register was compiled in the form of <u>index cards</u>, one per file, to accompany

the files in whatever manner they were shipped and to be used by couriers in checking

them. These index cards were carefully checked with the blue notebooks. In a few

cases there is added information on them so that one should not be used to the

exclusion of the other.

(V)

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Scaling and Shipping. The question was raised of scaling all files with references to American or British work. As there seemed no sure way of using scaling wax and as there were no facilities for baling the files with wire, it was finally decided not to do this. It was felt that the fact that the files were of steel and locked, and would be handled under direct supervision at all stages in fairly small quantities, provided sufficient security. The nine files which might have been so scaled have been so noted on their index cards, and a special watch kept on them in loading and shipping.

25

All the files were removed from their guarded rooms at the Burg

directly to waiting vans, with no waiting and no lying around, and under officer supervision at all points. The same handling is expected at the air field and in unloading.

<u>Summary</u> It is believed that this first shipment contains every document of direct cryptographic interest, and every document that seemed in the slightest degree likely to have indirect cryptographic or administrative interest. In other words these files are thought to contain all the original work of these people, all the collateral material used in the work, and all the documents produced by them having any possible intelligence bearing -- down to and including the air raid rosters! The question asked was not "Is it important?" but "Does it relate in any way to the work or to the organisation?".



6) REFORT ON HOLLERITH EQUIPMENT--

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1. At the time the equipment was abandoned by the Germanne it was apparently being moved to its first operational location, as the machines had never been used. The machines had been rendered inoperative but had not been destroyed. Most of the machine wiring had been out, and all easily removable parts, blue prints, diagrams, etc., had been removed. No punched cards were found; a few blank cards were found but there was no card form printed on them.

2. This is a detailed list of the equipment found:

- 20 -

4 Alphabetic-numeric key punches. These machines were of standard German design, with pluggable skip and ejection. Both alphabetic and numeric keyboards were wired for standard punching.

1 Card counting sorter. Regular horizontal sorter equipped with 15 veeder counters for recording the card count of each punch position, reject count, and minor and grand totals.

1 Sorter with Multiple Column Selector. Regular horizontal sorter equipped with mechanical type multiple column selector designed to select any pre-determined punched combination within ten adjocent cord columns. This selector was badly damaged and some of the parts removed so that it was impossible to ascertain whether it had any special features.

1 Collator. Standard machine, manufactured by Compagnie Electro Comptable of France. Machine was not equipped with a counting device.

2 Reproducers. Standard machines, of German design, one equipped with summary punching. However, the cable plugboard would not fit the receptacle in the tabulator.

1 Multiplier. Standard German design, equipped with six banks of counters.

1 Alphabetic tabulator. Standard American machine manufactured before 1937. Equipped with 80 counters and an automatic carriage of apparently Italian manufacture. No special features.

3. As many of the relay assemblies, plugboards, counters and pasts wore removed as was possible in the time available. Two of the key punches were taken, and also all removable machine covers that had the organizational designation painted on them. The rest of the equipment was destroyed using dynamite and thermite bombs.

4. Detailed study of the machines and parts had not revealed any special features. The conclusion is that the machines were to be used for standard statistical work.

sgd. R. W. ADAMS. MAJ. S.C.

# 7) REPORT ON SECURITY MEASURES.

- 27 -

a) Against the Germans.

From the first it appeared hopeless to prevent other Germans connected with the organisation from finding out about the exploitation of both Burg and Zschepplin. That the units were located at these places was known both to other people in the work (of whom one, Dr. LEHMANN, had left Burg a week before the guard was posted) and to relatives and friends of the members of the units. Later inquiries are almost inevitable, and any of the unrelated persons remaining both at Burg and at Zschepplin could supply enough hints to make the entire picture

perfectly clear.

A more concrete problem was that of preventing the personnel who were detained from finding out much about Allied Signal Intelligence organization and scope. Unfortunately the ground had been out from under our feet on this by the nature of both Lt. FENN's and Col. GLEAVES' conversations with the Germans before the arrival of the team. It had been made clear to the Germans that a group of their opposite numbers were arriving to handle them, and Col. CLEAVES made this very statement in introducing all the officers of the team by name on the first day. From that point on the members of the team adopted aliases and did their utmost to impress the fake names on the Germans. This proved a difficult front to maintain, with the many articles bearing true names and with blunders into the bargain, and it is likely that the Germans knew our right names at all times and were probably deriving a little quiet amusement from the attempt to conceal them. The team was more successful in concealing the nature of the cryptanalytic

work in which its members were engaged. Both in interrogation and in the examina-

tion of documents technical matters were avoided entirely. The priorities given

to particular files were carefully concealed, and there was no hint of what the

team considered important in its exploitation.

( 28 ) Th addition complete security measures were taken for all notes and files compiled by the team itself. The original members of the boam compied two adjoining rooms. One of these was entered daily by a cleaning woman, and at this time all popers were removed from it or an officer sat in the room. The other room was used only by the team and contained the main team files at all times when work was not in progress. Both rooms were locked at all times when not in use. Moreover the nature of the ground plan of the house was an aid to isccurity, as the guard, drivers, etc. were in the third room on the same row and were passing by the team's doors at all hours, while the German Foreign Office personnel were in another wing entirely and the only Germans regularly in this wing were the kitchen and cleaning

staff of the Graf.

It may be queried why the house was not emptied of both the Foreign Office personnel and the 40-odd relatives and servants of the Graf who remained there throughout the exploitation. The answer is, that the oard8 were already on the table when the team arrived. All the Foreign Office personnel knew that they were going to hand over all files, and if they were in good faith on this the rest was incidental, with a guard present and proper security of the work of the team. The Graf's household was composed entirely of women and children, except for three old men and one effeminate middle aged one. The Foreign Office stated that they hed always kept the nature of their work a complete secret from the household, but even if this had not been so it appeared incontestable that the members of the household could have done what harm they chose before the arrival of the team. If they were moved out of the Burg they could still get a clear idea of the team's activities by watching movements through the village. As with the Foreign Office personnel the guard and the elementary security measures taken appeared sufficient

to prevent any interruption of the work of the team. An additional reason, in

retrospect, is that to have taken over the Burg would have been to cause even wider

publicity and possibly to bring the exploitation to the notice of the Russians when they moved in. In any case the fact is that the <u>status quo</u> left by Lt. FENN and Col. CLEAVES was maintained throughout, and so smoothly that it appears unlikely

that it involved any real danger to security.

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b). Against the Russians.

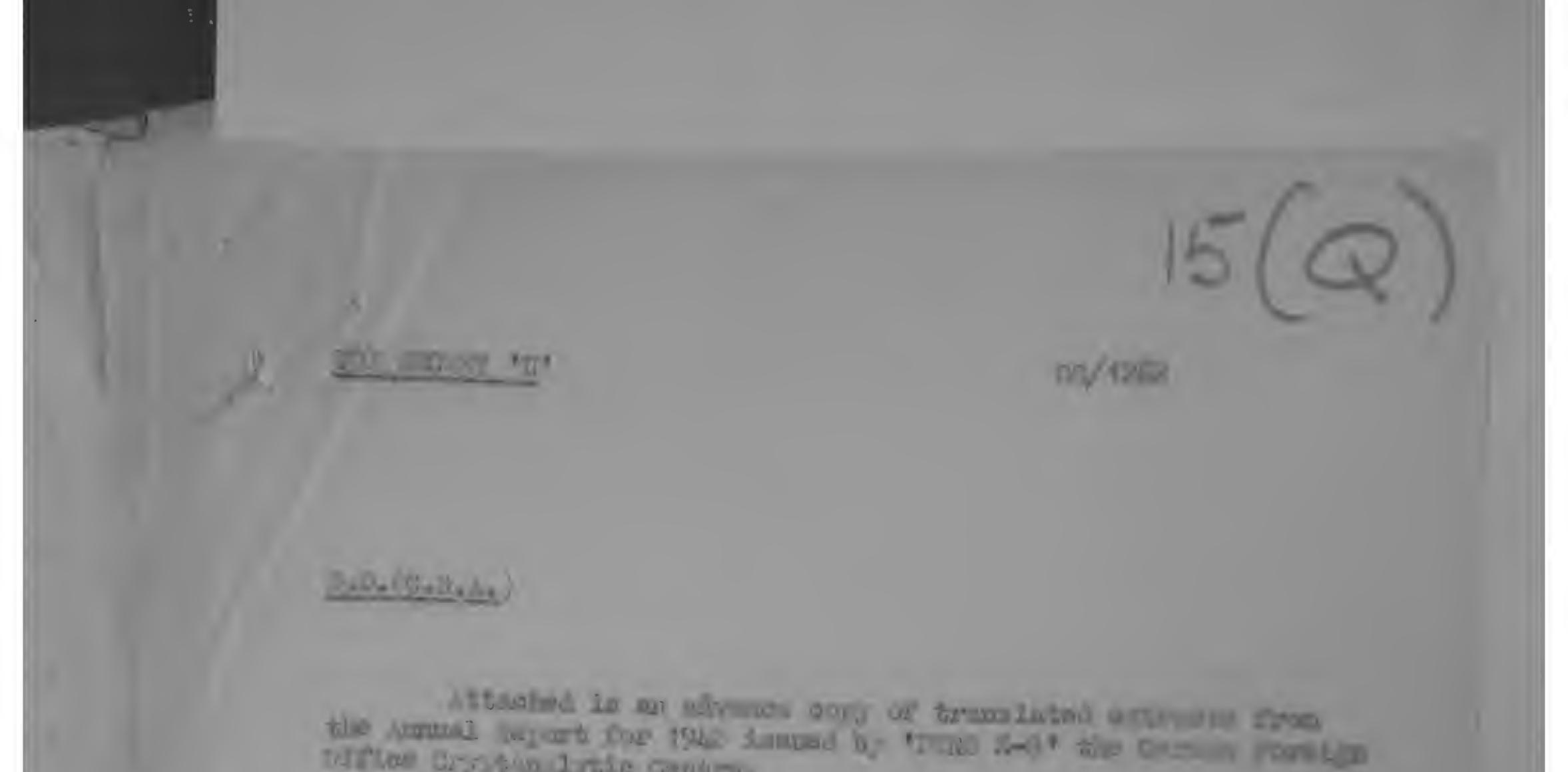
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+Although aware that the Burg lay in an eventual Russian area, the team was at first so occupied with the job of intelligence gathering that it did not give full consideration to the necessity of screening the pinch from the Russians. When the matter was first raised by higher authority the team's reaction was that it was impossible to serven, so full had been the publicity surrounding the exploitation. After much thrashing, however, a basic security formula was evolved and action taken accordingly. This formula was that <u>if</u> the Russians got on the trail at all no security measures could prevent an alert intelligence service from finding out what had taken place. What was required, then, was that the obvious evidences build be removed or so far reduced that they would be removed by the Russian infantry in its first occupation.

- 29 -

Action along these lines was concerned with two elements, personnel and material which bore the imprint of the unit or might be considered so peculiar as to call for investigation. The the coase of personnel, that action taken was to evaquate almost all, oivilians in both Zschepplin and the Burg to Marburg in the American area. This included not only members of the unit but relatives, especially of those evacuated to England. A full list of the German personnel encountered is given in Appendix B, with disposition of each, and an examination of this list will show that only a handful of ladies, mostly old and some sick were left at Zschepplin, and none at all at the Burg. The standard used was a rough and ready one to some extent; wives were taken but the mistress of one of those evacuated to England was left in

Zsohepplin. In the end it was felt that the persons left at Zsohepplin were few and ordinary enough not to rouse suspicion, especially as most of them were working in the military hospital there as attendants.



THE LOW DISSINGLATIC GREATER.

parers this is drawing by the first regart as it was the could we discourse unobtraitionily provisely about the same amount 

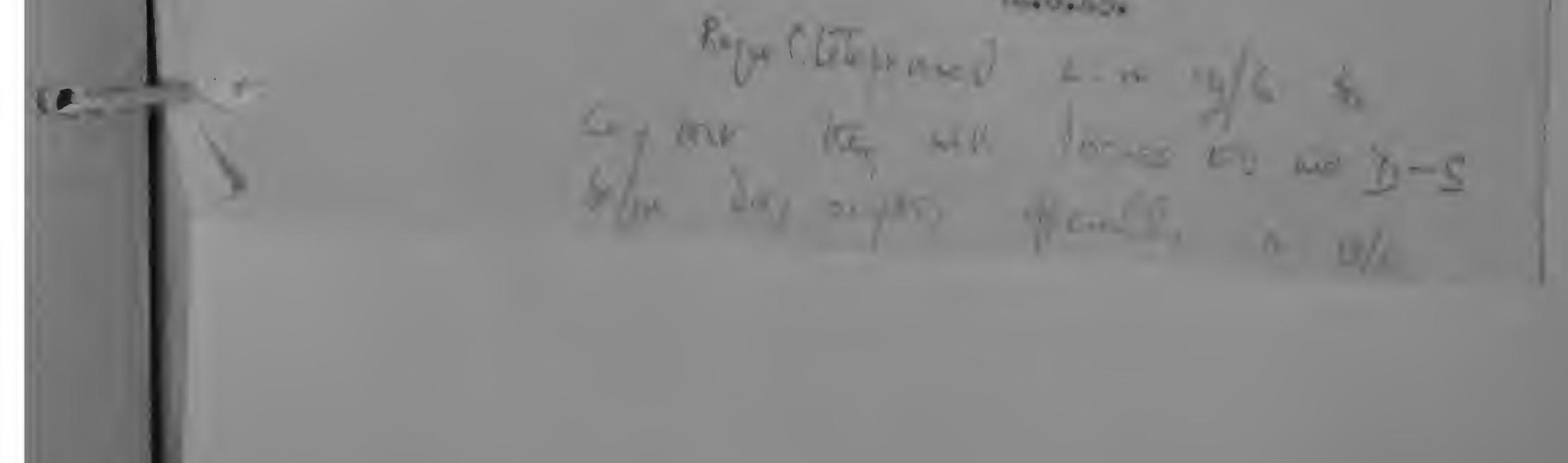
"B 224 (15' 12 3: 4) 1= JERUSSENDLY E.C.

3 23° (= 3) Jouth Lition (.T.C.

"B. 25s 30 and 51" - 1%" Dodd . (In T - 4)

The 2 A "Commission toring and then apply how to the Last a state of b) 111) propurably dim \_\_\_\_ Cold. The J. T. TOBBER-PORT (TOTOTOTOL)" (TOTOTOL)" (STORE) STS BOTTON I

MAND pr R. D-5 Theo hor



JUNIAL REFORT FOR 1942 FOR SECTION DEALING WITH BRITISH EPIRE, FIRE, FLATLAND, PORTIGAL SPAIN, NO LATIN AMERICA. ( 1/2/13)

OP SELRET "M"

BRITISH ESPIRE

GPEAT BRITAIN

Gin

4

The following were worked on :-

a) British letter codes.

1. "B22", a 5-letter alphabetic (systematisch) code-book+. ((Translater's mote:

"B" = Buchstabe= letter.))

2. "B25", a 4-letter hatted code-book.

3. "B30", a 4-letter hatted code-book, which, with slight variatio ma, is built

up in the same way as "B25". A change has taken place in the sethed of

lettering (Buchstabierverfahren) which is done in '550" with a "simple 126"

(=? hatted alphabet, or ? simple substitution.). is began working on the book

in the spring of 1942, but put it mide moon aftermerds owing to the urgonoy

of other tasks. We began work on it again in October 1942 and by the and

reovered of the year we had established the significantions of 1000 groups. On 3

# 21/11/42 me more able to publish the first telemone Henever the volume

A neare detailed account of all the cooks-books and cyphere mutiqued in this report which ware in nos before February 1942 and be found in the "Around Report" for 1941 and in the "Cryptographical Engent" of 1/2/12.

of traffic has become an smill and the combents so unintersating that an are

no longer working on it wory intensively.

4. "D31", a 4-letter hatted coll-book of 16,000 groups, which is built up in

-2-

alment the same way as "B25". The book has been in use pince int May 1912.

The preparatory statute of the work were down in the same month and in Jace we recovered bogon the astual work on the book. By the and of 1942 we had involved 2,500

groups. We were able to publish the first telegrans in October 1312. In the

case of this book, too, the traffic has sunk a great deal und the postents of

the telegrans have greatly diminished in value since the book was first mod.

# b) British figure cypiers.

11

15

2---

The "ITTEDEPARTIE TAL CODE" ((sic anglics)). As the volume of traffic we clim

and the subtractor talles (Additionswithen) sugglied by the (Gran) hir initry

consequently enabled us to re d fragments of a winly wintersting text, aly deer

great delay, m ceared work on it in the mer of 1942.

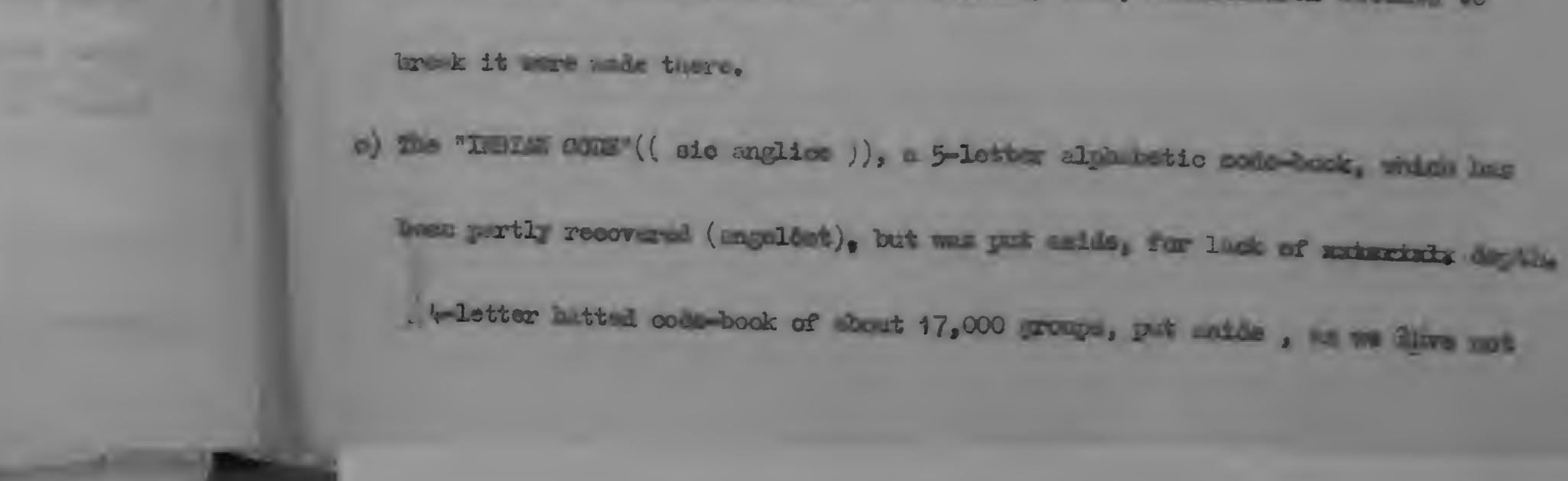
The following muc not worked on:-

a) British figure cyclers (with the exception of the IDC).

b) A consul r system in TENERIFFE and LAS PALLIS traffic, or inting of

transpoond clear-text. Incording to report by Herr Cherry ieringer it The cordinate

WACHTER of the F.A. (Ferschangest) in Wernery 1942, unsuccessful attents to



sufficient dopth is wark on at present.

-3-

## AUSTRALIA

Worked . ....

B22 (Se GEAT MILAIN pars. 2)2. )

## CANADA

Worked out-

122" ( See GRE T BRITAIR para, a) 2.)

SOUTH ATRICA

Torked on :-

.) B22" ( See CEAT BRITAI para. a) 2.)

b) "B23" \$, a 5-letter alph betic code-book.

EXCHANCE WITH DEW, OTH AND F.A.

Not worked un:-

Y ...

. A letter code used in traffic with STOCKHOL!, from which caly 7 telogters have

come in during the pear.

In 1942 546 (decoded) BRITISH EMPIRE telegres re published.

At the end of impart 1942 the "Dit" code-book ( Month 1,500 groups) and at the beginning of November the "Did" code-book ( Month 750 groups) were passed to ODN for vogying. Since them a regular emissing of seely recovered groups for "Dit" has been The "B31" code-book (2468 groups recovered) was passed to OKM on 16/12/42 for

-4-

copying.

Contact was established with the F.A., at the wish of ORR WACHTER, in February

1942. This did not, however, go beyond a general exchange of ideas. The call concrete

result was a list of about 50 recovered "B30" groups which the F.A. gave us.

EIRE

- -

Freedow

Worked on:-

a) "B22" ( See GREAT BRITAIN a) 2.)

b) "B22" recypered (on a substitution system).

Not worked on:-

A figure cypher, owing to lack of depth.

In 1942 126 (decoded) Irish telegrams were published.

The rest of this report, about six pages, is not reproduced here. It consists

of abort reports similar to the above on the diplomatic code and cypbers of THAILAND, FORTUGAL, BRAZIL, SPAIN, ARGENTINA, BOLIVIA, CHILE, MEXICO, PERL,

URUGUAY, VENEZUELA and other WEEkx South-American countries. ))

G. C. C. S. (S. A. C.) 11th June 1945. 1. G. F.

# D.D. (Gory to D.D.4)

NOT a stall of

with reference to my DE/1206 of 26th May and D./1219 of 29th May, herewith a copy of the minutes of the shell weting with the "Fors 25" copyrographers of the German moving Office.

The fact that they appear to have achieved unit to nothing with any british civil high grade system from not necessarily heply that the termans as a whole had no such measure are still largely in the dark regarding the work of Cosring's private "for chargement" and of the chronest (ON/CHI).

Reference the attached minutes -

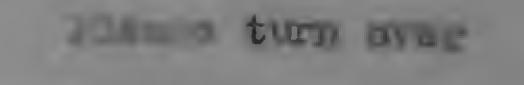
- mra 3. Il Code toot about 3 nonthe to build and mile more used after identification.
- importance".
- para 5. R Cole and C.T.C.
- The R.F. and used in Hornay appears to have been H.9. sopy Manher 1.5. a Thotograph of his we found song the cuptural documents. It whom to have not from H.L. Consults of Bergen.
- 10 10

Inter-departmentel Cypher sold to be the conditiont of the other two bereaux. More again the decomption include a photographic copy of Inter-departmental peopher 1936, Copy measure 673.

para 11. Hasttenhain will have to be interregated on this, as well



parts the This should not be approphed as an arthory itsting aterborret.



55/1226

# 2.



Para 18. Faschles added that in any case it may the Watrican unrecoded books which really produced good intelligence, not the British. 'crangementswill be made to interro sto Fraulein Hagen in due course.

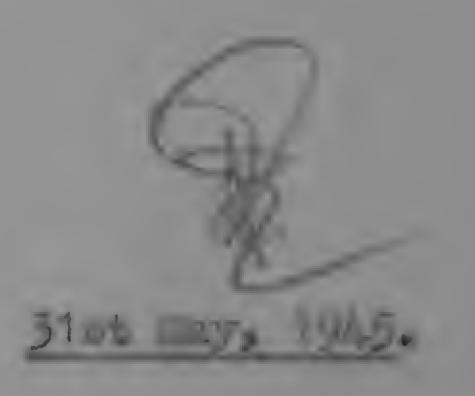
Para 19.

Presuably no intentional use of low gold codes was in fact male by the Foreign Office.

In answer to a question. (3.1.". long mbtractor

- para 20. aysten).
- (Bottom of page 4) Russian "O.t.D." Poul on deptus of para 220 timet.
- Inschie a statude to Double The mittles. E21:2 25.
- These papers are now in my roscendor attend in DILTO. 2.00 M.S.J. and mot very legible - but will be to colated is due course.

The afternoon someion (seventh meeting) produced some further information on British Foreign Office Ion Mucaucore, but the minutes have not yet appeared.





Meetings held with German Cryptographers in the Oratory School on May 21st, 1945.

Sixth Meeting, 11 a.m. to 1 p.m.

Present: Professor Vincent, Commander (S) Dudley Smith, R. N., Major Scaman U.S.A., Lt.Fehl, U.S.A. Dr. Forster, P.O.M. Phipps W.R.N.S. Dr. Paschke, ORR Schauffler, Prof. Rohrbach.

(=2)

' The main object of this meeting was to obtain information on work done on British systems.

In reply to the question whether work was done on Colonial Office, Dominions or India Office systems, Dr. Paschke replied that it was difficult to keep them apart. All unrecyphered codes were investigated. India Office traffic was only investigated when enough personnel was available, which was not often, and in any case there was little material.

British unrecyphered 4-letter books. The time lag between the introduction of a new book and the reading of messages naturally varied very much, but in favourable circumstances was about 3 months. Much of course depended on a good link-up with published statements in the press. They had a subsection for reading newspapers for this purpose but information from the press could not be used until the book was already built up to some extent and was then only called for when a partially decoded message was found to be based on such material. The value system on which the books were constructed gave no assistance in their reconstruction.

British unrecyphered 5-letter books. The time lag in book-building was longer than with the 4-letter books, i.e. 4 to 5 months, but the content of the messages was less important. There were two large books, one in general usc. the other principally used for the traffic of the South Africa Government. The first was also used by Eire. These books were of no great importance and were not fully built up.

One 4-letter and one 5-letter book were captured in Norway but both were already readable.

No recyphered letter traffic was read.

British figure systems. They had no captured books, but an out of date recyphering table was captured in Norway, which enabled Dr.Kunze to strip the traffic for a time. Analysis of the captured table gave an idea of the scope and method of recyphering, but they never actually read any of the traffic. The starting points for the subtractor depended on the date and the number of the message.

No work was done on figure traffic sent with a 5-letter indicator of the type CVCVC or VCVCV. It contained groups of unrecyphered code in the preamble. No intelligence about order of battle of military authorities etc. was extracted from these preambles in the Auswärtiges Amt, as the O.K.W. had copies of the messages in any case. No assistance in breaking additive recypherments was received from references to previous telegrams made in plain code in the preambles of cypher telegrams.

A "five" figure system, Interdepartmental Cypher, was captured in Norway, but the O.K.W. and Görings Forschungsamt were principally concerned with its exploitation. He thought that the degarbling system had been reconstructed.

Dr. Paschke made it clear that although these systems were not read, there was in fact enough material for them to be readable. When asked whether any assistance was offered the organization in this respect he said that they had to manage with the personnel they had. The acquisition of Hollerith machinery had no connexion with the previous failure to solve British systems. Periodical checks were made to see whether the systems changed but they were convinced that no fundamental change occurred.

No work was done on British commercial or Bank of England systems. Dr. Paschke was of the opinion that these were not handled by the O.K.W. either but suggested that Göring's Forschungsamt might have been concerned, as it had economic and industrial interests.

It was made clear at this point that there were three independent parties working on diplomatic systems in Germany - the O.K.W., the Auswartiges Amt, and Göring's Forschungsamt. The Auswartiges Amt had less liaison with the Forschungsamt than with the O.K.W.

Shift Working: Working hours were from 8 a.m. to 8 p.m., though Dr. Kunze's party occasionally worked nights. There was always a duty officer available at night. They had no regular shift system because it was difficult to get people who were suitable to be heads of watches.

Interception: Material came from 3 main sources;

- 1. O.K.W. which maintained interception stations at Lauf, Treachbrietzen and Lürrach. "Traffic received by T/P.
- 2. Porschungsamt, stations not known. Material intercepted by the Pest Office, both W/T and

L/T, reached 'Pers. ZS' through the Ferschungsaut until that was bembed out, after which this type of material came direct from the Central Post Office.

3. 'Fers. 28' maintained a small interception Station of its own in Dahlum, colled Landhous. It was used to cover the more important traffics such as Actors and Lisbon. London was always very pourly received.

The O.K.W. meintained interception stations in occupied countries; he knew of one in the Balkans, one in Greece and one in France. We meterial was received from diplomatic posts abroad and none from foreign interception services, except some traffic intercepted by the Hungarians which was forwarded through the O.K.W. Nothing was ever received from the Itelians or the Dinns. Nothing was ever received from the Itelians or the Dinns. In most cases the traffic was copied in the O.K.W. or the Forschungsamt before it reached 'Pers. ZS', so there was no indication of its origin.

- 3 -

It was stated that the O.K.W. did no work on ritish recyphered books.

If when a new system was proten it was discovered that traffic dealt mainly with patters outside the diplomatic field, it was handed over to O.K.M. for exploitation.

Dr. Paschke was unable to say which British channels produced the greatest number of messages with intel igence value and said that Frl. Hagen could answer this question procisely. [Comment: this tody is ill and is at present

detained at Marburg .

On the matter of misuse of low grade systems for the purpose of passing high grade information, Dr. Paschke stated that though in general the inselligence value of the low grade traffics was not high they had carried a number of deseages of considerable interest. His impression had been at the time that these messages were pasted in that way for the express Junofit of the Germans. He recalled a number of messages before the out-break of the war to the effect that Britain Would not remain neutral in the event of a conflict between Germany and Poland. He remembered a case about six months ago of a short tolegran from London to Berne concerning the burning of a signature to the Atlantic Charton. this message proused consid roble interest in Berlin and the cryptographers were asked to check its accuracy, as its meaning was not clear. There was no cryptographic uncur sinty about the decypherment, but the text runained obscure and its munning was never cleared up. Some such restages were shown to the Führer, principally those concerning the treatment of prisoners of War.

No transpos profized "IPPEDR" word read.

Amorican trainic: More importance was accorden to Amorican than initial traffic, paral flor ergpto raphic masons, as the American paralial was easier to read. The links to Borne, Ambara, Lisbon and Vieng Mere the most important, Standholm less so. The true link passed messages from gents in the my. It ill passe material was also passed including of memory.

ORA SALADAN A CANADAN SET OF IS INVERSING IN CRIDEN IN CRIDER. IN SOID IN TOTEL DELIGE I LOLL, MODULOUS INTERIAL AND SUBJUCT. IN SUBJUCT DE SET AND ADDRE SEO NO TOT IN A DE SUBJUCT DE LES A DE VERSION SUBJUCT. IN A DE LES AND AND ADDRESS A DE SUBJUCT. ACVIOR. IN ALLER A MICH A DE SUBJUCT. IN ALLER SING ALLER HOSE LOSS, MICH ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS. The Weitr seine had stier in this total and improved it. The provision spectric matter as the bries was sometimes solved by staron you begintings and known schnings. The Swise used to include in their messages the methics setting a Pohe nois ness je. He not investigated the Kryne machine and had roomled that it Was soluble. He had also sourc knowledge of the 'Geheinschreiber', one of the principal lasteres of which he descrited as consisting of Thells with sujustable wiring. It was not very satisf charp and lititanhain of the O.K. /. Lorachungselucilung [low onv: not to be onnfussa with Gering's Lorschungsmits was sur innelly finding augptographic faults in it. The Lusuderiges Ant used the 'Geneinschreiber' bat the O.K. 7. Was responsible for the security of the levice. Then saled where the machines come from which 'Pers. 23' investigatel, he said that they were supplied in prace mot their security could be tested. Ergelin schines had seen investigated by the Wehrmacht and C.K.H. hol read material encypheral with them. His orn special drug was to ensure that oryptograthic possibilities were menn and appropriated. He had worked with JRA. Langlotz, Head of the Opphar Security Section of the Lusudrii as Ant, on this subject and was satisfied with the liaison emisting with the arthorities responsible for German systems. La this point, Dr. Prechic district that they That reason we be convinced of the superiority of German ststuns' ('Nir Wein sit Richt Bourzougt von for Waurlogenhalt der instaanen Verfahren '), wich which ORA. Schatiller agre à locatorie die general e nterm of this relarie stationst locator ststems' mes incended to incluie the machine sys ....s deuf in the tradi lordes. . In reply to the st devian that the second of the second a ant that the mean age of orypt prathy had come to an end, ORK. Schauffler said that the at at all begun with the first world war and was likely to end with the second. It was however worth bearing in mind that it the end if the last war people wore sering that the bge of a ypte raphy was over. He isla that the history of cryptelraphy, in which he had a lifelong inter.st, had ind is contenion o real function of pullers, in that it no record a contion to dethods of selection and enteral only incoldild as long as they were well uset. The Svise Brigne hal our scol becaust it was built uset. lie Wehrmoelt how laid down a midt falue tor the use of the Enime le preur blot compromité di la retroure through immonorust. Ill same applied to the systems. Dr. Pascize na this print the L & Rusting differentie one ints pad which has USL USD. I will not itt pray and r Gonditions which it hosp is the hereit it the issue is no for use to be be rate and dien the las to provide. The O.K. A. med Ford to de l'Uniteri. Gui ... e fient alle . ... ie weit ter. Gellings on s augun of 1 des l'estruit in spilte ... . 91 f. ne. solution was hely i a the cit. A stand the she was lens of the relation. The diplocate state of all comp Ti 12. II - 1. II II II II II II.

Special characteristics of Russian one time pairs Large Cifferences between adjacent figures where comparatively rare. He had seen specimens of Russian one time pairs captured in the field. They had been types on a synchriter with one carbon. Series of figures (c.v. 545.78 pmc.) with a difference of 1 were common and other psychological peculiarities of the typist, such as a recognisable distance for zero ('Anjst vor den Mull'). The indicators were encyphered with the first group to the finished telegram. The folse sum of the peculianate group was the discriminant.

Renvioning the circumstance that the Russian eys one changed after the publication of the Drivish White Paper in 1927, ORR. Schoufiler renarged that we did not publish the really intersting material at the time and he had never been able to puddretand Why not.

Double transposition. When asted about indir control success with systems of this kind, Dr. Pasched States at it was solutimes possible to read them or recently, but that it depended on the number of hogs. In demondance hought, and ORE, Betaufiler agreed, that they could as with trouble to the legitimate users as they did to the eryptographer; they were secure but laterius. American druch, consposition systers were known to shist, but no were had been done on them.

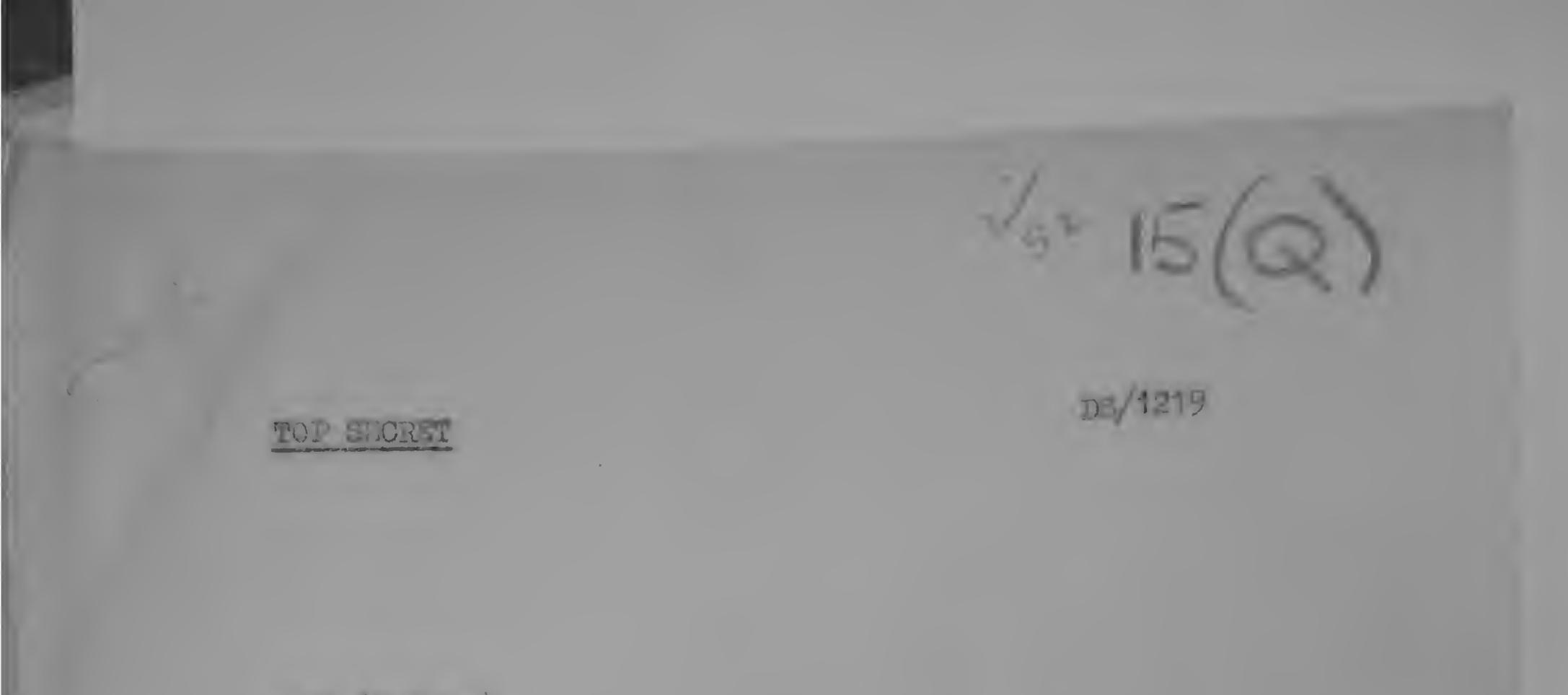
Last Mar Papers: ORK. Schouller observed that his boxes an ng the coptured mate isl ('Scrie 20') contained a collection of material relating to the eryptographic work done by the Gurmons on British Naval cyphere during the last war.

Rough ligures were given as follows:

1918	20	to 30 people
1930	50	paople
1939	UC	- 100 people
1945	100	- 200 pcople

The mosting the sayanted. Define the sayante of interesting Rohrbach asist andther chysting could be forme of the CRR. Scherzchwich, the "Furs. 13" and balliss on the ist, Polish and Slavenic coherence, who had been les mound of in custoly of allies hilliters Contenant police. The traccles and a to have taken the astrona thermal of Dr. drunsky, and is now is heapive. The most of the track of to provise only in or wither of the taken.

DIB\_RI\_U\_IOI



# D.D. (C.S.A.)

With reference to my DS/1206 of 26th Hay, 1945, herewith a copy of the minutes of the fourth and fifth montings with the Auswaertiges Ant cryptographers. There is little of direct interest to us - page 3, Typer machine captured at Dunkirk; page 4, distinction between systems insoluble in practice and in principle; page 5, Austrian cryptographers raid on a 'piece rate'; page 5, Merican diplomatic systems.

The minutes of the sixth and seventh meeting, at which I was present, will be available shortly.





# Meetings with German Cryptographers held at the Oratory School on 19th May, 1945.

## Fourth Meeting at 11 a.m.

Present: Prof. Vincent, Major Seaman U.S.A., Lt. Fehl U.S.A., Dr. Forster. Later: Dr. Kunze, Professor Rohrbach, Herren Rave, Hierer and Grosse.

Dr. Kunze and Professor Rohrbach were called. When examining the captured material it was found that the most recent Work reports were missing. The gentlemen were asked what the explanation of this was. They replied that all the documents of the research section had been destroyed at

Zschepplin.

Dr. Kunze was then asked about the machine, mentioned at a previous meeting, for solving the American strip. This machine was for decoding, not for analysing. Double-length strip, were hung on lugs attached to rollers. The cypher text was typed on a machine which unrolled the strips so that the cypher text was visible along the bottom of the window. The clear text was then visible on some line higher up in the window. An electric device had been designed to illuminate the frequent clear text letters. This was abandoned, as it was found more convenient to print the common letters in heavy type on the strips and read off the lines containing the greatest number of letters in heavy type. The strips were made 52 letters long and were arranged in a bank of 15. The machine was thought to be with some Hollerith machinery in two waggons which had never arrived at Zschepplin [Comment: see report on Second Meeting].

With respect to the Hagelin Machine found among the captured material, Dr. Kunze said it was thought that Roumania, Sweden and Finland used this machine. No traffic had ever been solved for lack of time and personnel. He had heard it said that the Hagelin was also used by the French and American armies. The specimen mentioned had been acquired by the organisation for general investigation of its properties and had never been used to decode anything. [Comment: the number on the cyclometer of the machine is only 295].

Dr. Kunze was then asked about the Japanese machine traffic

discussed at a previous meeting and whother a machine had been constructed to decode it. He replied no, that they had been able to achieve the desired result with paper models.

Major Seaman then asked about the purpose of a number of rotary switches found among the captured material. Dr. Kunze said that he was not quit, sure Mna. switches were mont but he thought that hey were captured material ('Beutematerial') sent to them 'in case they call in useful', as cloctrical fittings of this kind were in short supply.

Scandinavian systems were next discussed. No material had been road. Swedish traffic, thought a priori to be Hagelin, was investigated for three months in 1941. At first the machine had 25 letters, then after two months a machine with 26 letters was introduced. In August 1944 another investigation was begun, in which Professor Rohrbach participated, to determine whether the indicators fitted the Hagelin pattern.

Asked about Turkish systems, on which there was a noticeable lack of material among the captured documents, Dr. Kunze stated that all the Turkish material had been burnt.

Dr. Kunze was then dismissed and Messrs. Rave, Hierer and Grosse were called. Professor Rohrbach in the meantime explained that these gentlemen were of a definitely lower grade and had come to 'Pers ZS' to be trained. He spoke of then with obvious distaste.

Messrs. Rave, Hierer and Grosse were all employed by the O.K.W. and loaned to 'Pers ZS' in December 1943 to assist with Chinese and Japanese traffic.

Rave had joined the O.K.W. in October 1941. He was first at Tirpitzufer 72 - 76 until it was bombed out, then at Im Dol, Dahlem. He had got his friend Hierer into the O.K.W. because of his knowledge of Chinese. Grosse had been employed on Italian at the O.K.W. and Was later transferred to Chinese. It did not appear that he had any knowledge of the latter language.

Rave, the spokesman of the group, gave a sketch of the Organization of G.K.H. Chi. The head was Oberst Kempf, who was relieved in 1943 by Obcrst Kettler. The sections were: translating and bookbreaking, under Ministerialrat Fenner; Interception; Intelligence, under Oberst Kalkstein; cryptographic research, under Hüttenhain; and 'Z', the department dealing with administration and personnel.

Rave and the others had worked in Fenner's section under Oberleutnant Aaler. This group consisted of 12 - 15 people, engaged at first on Japanese only, then Chinese.

Then asked what they had heard of notable successes of C.K.V. Chi, they said that they had heard valuely of successes or American and British systems and mentioned American military attaché recymered voie read in 1912 Wilen Ronnel was in North Africa. They thought it had been proken by orghungraphy, not

owing to physical conjuctise. [Content: it was plain that these statements were based of rundur utly. ]

Ther admitted that mean of the work done in 'Pers. 23' was duplicated in the C.H.W., Which worked on applematic systems only. Service systems were dealt with ty the respective services concerned, O.K.H., C.H.H. etc. Lizistn cotween C.H.W. and 'Perz. ZS' was carried on by Ferner and Faschke, iDenment: Nucze and Paschie had been military proprographers in Norld War I. ] Who were concerned at the amount of duplication and worked to evaluate it Their efforts were not regarded with favour by Selchow. There had been some co-operation early in 1943 on Turkish, but apart from that the Loan of Rave, Hierer and Grosse to 'Pers. ZS' had been the only occasion they knew of on which the two departments had worked together. The situation was not improved by the O.K.W.'s practice of calling up competent people from other departments, putting them in the ranks and then drafting them into its own cryptographic organization. The O.K.W. had neither the long tradition nor the expertise which 'Pers. ZS' possessed, though Ministerialrat Fenner and a shall party had been engaged on this work in peace-time. [Comment: it is possible that this was said in deference to Professor Rohrbach who was present throughout this interview. J

In the matter of captured material and machines, Rave said that new arrivals at O.K.W. Chi had been shown a British machine captured at Dunkirk. It was broken and rusty and did not work.

Chinese and Japanese systems: They had read a Chinese Military Attaché system, which had ceased in April or Hay 1943. The first groups of the traffic were EFR, SKW or JKW. The recypherment consisted of transposition within the code groups. The groups were 3 letter groups. They solved the recyphermont but never read any messages.

Another Chinese traffic, with discriminant NKDBN, was investigated. It also consisted of 3 letter groups but was unrecyphered. It contained many spells which were easily recognisable, the names etc. being spelt out in simple substitution. It was a purely military code.

They broke a Japanese 'Kennwort - Code' consisting of double transposition of 2 and 4 letter groups from a known book; the transposition was done by a stencil, the stencil being the same for bothing transposing operations. The system was broken on a re-encypherment. It was a diplomatic system used between Moscow and Tokio. They read it from the midale of 1942 to June or July 1943.

No work was done on Japanese attaché systems. Rave remembered the Japanese Naval Attaché visiting Oberst Kettler.

Grosse, asked about Italian work in the O.K.W., mentioned a diplomatic system AR 22 and the Impero code as having been solved. His statement in general tallied with that of Dr. Frachke at a previous meeting on Italian work in 'Pers. 25'. The Italian section in the O.K.W. consisted of 15 to 17 people.

Professor Rohrbach pointed out, after these gentlemen had been dignissed, that their statement on the Japanese 'Kennvort - Jode' had been inaccurate. The recypherment was single transposition, not double.

Fifth Locin an 5 p. L.

Prosent. Trof. Vincent, ..... Jor Guaman U.S. ..., Lt. Fonl J.S. .... Dr. Forster. Later: In succession: Dr. Marstien, R. Zastrow, Froi.Rombecci Dr. Horstien and Professor Rohricch Wert called toroiter. Dr. Karstien however objected to the presence of Rohrbach and it. was agreed to interview him alone. [Comment: Rohrbach informat

the meeting later that there was considerable antagonism between himself and Karstien.]

- 4 -

Dr. Karstien had been employed on Slavonic systems until 1930 when he changed to Chinese. In 1938 after the Anschlues the Slavonic countries became more important and he went back to them.

The Yugoslavs used a five figure code with letter bigram tables consisting of 100 bigrams. This system was read from 1938 to 1943, when traffic dropped, after which it was read with interruptions. They had not received any Tito traffic, nor military attaché.

Arising out of the matter of attaché systems he gave a short summary of the division of work between the O.K.W. and 'Pers.ZS'. The O.K.W. had at first been responsible for service systems only but had not had enough readable material to train its personnel. It had then taken up diplomatic systems and having once tasted blood it refused to leave the me 'Pers Z S' left all attaché systems to the O.K.W. [Comment: Dr. Karstien was clearly at some pains to bring out the interdepartmental rivalry at which other members of the organization had only hinted.]

He mentioned a 10,000 group Chinese Code worked on by Dr. Olbricht, who he thought was lucky, as in the days when he himself worked on the Chinese he had to cope with a code book of 40,000 groups.

Asked about the application of the experience of the organization to the security of German systems, he said that at an early stage the Germans had progressed so far on a scientific basis that they had little to learn (... 'sind schon früh auf wissenschaftlichem Gebiet schr weit gekommen, sodass wohl keine Belehrung nötig geweecn'). He mentioned O.R.R. Langlotz (who died two years ago ) and O.R.R. Schauffler as having materially contributed to this desirable result. [Comment: see minutes of the Sixth meeting.]

He discounted any assistance received from captured material. He had had occasion to examine captured Czech material and stated that the Czech systems were unbroakable. In reply to the question 'in what respect were they unbreakable?' he stated that the Czechs used one-time pads. There was, he explained, a difference between systems which were insoluble in practice (owing to lack of time, personnel or equipment) and those insoluble in principle, such as the Czech, Russian and German systems. [Comment: This valuable distinction was much appreciated by the interrogators.]

Polish systems he had found unbreakable in practice; there were too many of them. They required more labour than the department had at its dispesel. He mentioned a five figure book with a subtractor.

The Bulgarians used five figure books of 40,000 groups with frequent repagination.

The Lithuanians and Letts used mainly transposition, sometimes double, sometimes single, occasionally receptored with Vigenère substitution.

Ic and rever been concerned with the solution of machine systems.

No ligison with forgin cryptograpaurs existed.

No intelligence work was done in the acpartment itself on decyphered material, though the selection of material for issue was of course guided by considerations of its possible intelligence value. This selection was done by the Referent [sub-section head] on the basis of 'mowledge and experience.

In the matter of official recognition of work loss of the organization he observed that there was none, even from the linister though, as everywhere, the authorities were quick enough when it came to complaining. [Comment: this question was inspired by the discovery in Dr. Paschke's private papers of a letter dated 30.5.1938 from the Forci; Minister, von Weizsäcker, congratulating Paschke on particularly successful efforts ('besonders orfol reliche Bemühungen') in the field of work assigned to him. J 'We worked', said Dr. Karation with some complacency, 'entirely in the dark' ['Wir arbeiteten vollständig in Dunkeln'. Comment: the romantic aspect of this kind of activity appeared to afford him some satisfaction. ] It and been different with the Austrian Foreign Office cryptographor. who had been paid partly by results; solution or a diricult problem had been rewarded by a bonus. A fermer rember of the Austrian organization (now dead) had tradeferred to 'Pers. Z3' after the Anschluss and professed himself discaticfied with the remuncration in his new employment.

Dr. Karstien was dismissed and kk. Zastrow called.

RR Zastrow asked that Professor Rohrbach be allowed to be present at the interview. He was accordingly called.

RP Zastrow is a bookbreaker and not been channel of U.S. systems for 27 years. The Americans hall sing 5 lose of cooks with 10 recyphering tables for more approaches and bigram substitution to each book. The tables read for two to six months. Later other substitution tables becan be a used, with 5 indicator groups to each table. The matter were changed in the course of a message, the in leater for the new table being encythered with the provides table.

The German dusignation for backs of teas van 81, 82, B3 ster, to B9, (E = Buchstabe). Laterican equivalents at remembered wore: B6a = A1 B6b = B1 B7 = C1 B6 = Brown Code The 16a back was known through physical comprehies. The Trown Code and been explored but 10 and teep to key Satory capture. The reconstruction of at book had hered 24 perces. A transposition system used by the 'Coordinator of Information Washington' was mentioned. To success had been achieved with this.

- 6 -

At one point RR. Zastrow had been lent to the O.K.W. The head of the British and American subsection in the O.K.J. Was ORR. Rohen, who did the same work as was done in 'Pers.23' but had more people to do it.

RR. Zastrow knew of no U.S. machines or cyphers other than the strip.

He said that he was tired of cryptography after 27 years and would like to change over to some kind of administrative post in the diplomatic service. [Connent: the interrogators did not think he would do well in such a post.]

Professor Rohrbach was careful to point out that the loan of Zastrow to the O.K.M. by 'Pers.ZS' was a very different matter from the loan of Rave, Hierer and Grosse to 'Pers.ZS' by the O.K.W. Zastrow was an expert and a man of considerable experience, whereas the other three Marc young men who had to be taught their business. [See report of Fourth Meeting.]

[Comment: Conversation was carried on in English. RR.Zastrow's speech consisted largely of indistinct mumblings, so that some difficulty was experienced in recording what he said. Prof. Rohrbach informed the interrogators that Zastrow was very difficult to understaneven when speaking German.]

The meeting was adjourned.

#### Dictribution.

Brigglier Tillean. Frofector Vicent. Major Scaler C.S.L.(2) Cur. Dulley-Smith L.N. Lt. Pohl U.S.M.(2) Lt. Bachus D.S.E. (2) Cdr. Dacon R.N.V.Z. for Ticet (L2) Dr. Forster.

# 100/1205

# III (CEA)

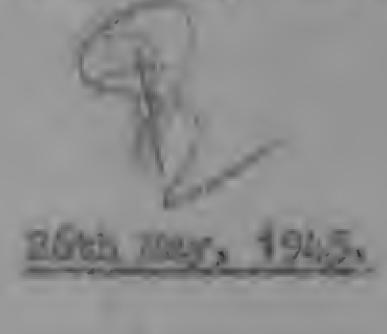
THE STORAL

Herewith content of the "minutes" of the first three cottings with the civilion (content cryptographic staff of "Fare 2", the Main Minutes crypto bureau of the Content Fordern Office.

I spont all day on Monday, 21st May, interviewing every of them, cal the minutes will be everified a shortly. The min prive which emerged and that no real measure was achieved with reithin ferlong multimeters, although traffile as a table in feres from Longer 1 1940 to Humary 1941 was lived up to a depth of 15 over a bay Longth of about 2000 groups, and the subtructor thereby recovered. And informabook broaking was not achieved however to product intelligence.

It is not clear whether cyriser if or K was the one introlynd, but we are not in the process of establishing sees of their dependent dependents which may three further light on the problem. Parallelo rocyrisering tables are SLE. 3 (in three 1.11.10 - 6.2.41; ) contact). OK. 5 (outland 1940 - 31.1.41) as one of the 1 tables (between 0.1 and 1. 12) of which I have no records.

to build it sufficiently to produce reasonably courlets does ".





ME TINGS HELD WITH GIRMAN CRYFTOGRAPHERS FROM BURGSCHLIDUNGEN AND 4SCHEFTLUN ON 9th MAY 1945 AT THE GRATCHY SCHOOL AND 12th MAY 1945

AT 101 NIGHTINGALE LAR WANDSWORTH

First meeting (at 11.30)

Present:

(6-

Brigadier Tiltman, Frofessor Vincent Col Cook U.S.L., Lt. Fehl U.S.A., Dr. Forster and later: Frofessor Dr. Rohrbach.

It was agreed before the meeting

a. to treat general matters only

b. to interview Professor Rohrbach alone first.

Professor Rohrbach was then called and asked to sketch the organis time to which he belonged. It was made clear to him that the meeting had neither the desire nor power to intimidate him or his colleagues into importing information against their will. He replied that he and his colleagues were prepared to talk on a professional basis of "exchange of results" though it was clear to them that the exchange would necessarily be onesided.

He gave the official designation of his organisation as Department 'Pers 2 S' of the Auswärtiges Ant. It had formerly been known as the 'Chiffrierabteilung' but later the cover 'Pers 2 S' was adopted. The organisation was concerned with cryptography on foreign diplomatic codes and cyphers; no military or other material was handled. There was another department of the auswärtiges amt which dealt with the production and security of German diplomatic systems, but any liason between it and 'Pers 2 S' was purely informal. This department had remained in Berlin until the end.

The head of the orgainsation was Gesandter SELCHOW. The three sections of which it consisted were under

Oberregierungsrat SCHAUFFLER "Dr. P.SCHAL

Dr. KUNZE

Dr. Kunze was an old hand and had been in the organisation for 27 years. It was responsible for the initial breaking of difficult systems, recypherment: etc. His staff consisted largely of mathematicians. However, had not been available to him until 1942 but by the end he had about 10 meching. This was thought to be due to the personal interest of Mibbeatrop.

Dr. Paschke was responsible for bookbuilders and translators. His section was organised by countries and languages. He also carried out such lisson as was done with the ichriacht.

OR Schauffler: a mathematician. Started life as a choole stor, 's g made in the last ar and on return to his job found schools storing too the for him. Entered this organis tills abortly afterwards as ' anthematician. In became interested in Far Fastern languages, in which he specialis . This field was theoretical research ('Grundlagenforschung') on cryptogrophy, and he edited privite periodic 1 which circulated within the office, call 'Ichriften des use artigen ints'. It is concerned har ely with cryptographic methodology. (Coment: Copies found on the four ent contain solutions of problems connected with the end in chine. It has in ind the question of the distribution of the periodic 1 is rised.) It has no distribution outside the office and is only field by senior staff inside; solutions to belchow, but is he and not under that such bout cryptography it is thought improbable that he read it. There is very little lines with other cryptographic bureaux; nothing as now, bout rol time ith prein or ptographers. Professor Rohrbach was at pains to explain his own position. He had chair of mathematics at Prauge, which he held concurrently with his appointment with the Foreign Office, travelling often back and forth. He had chanced to be at Burgscheidungen when the place was overrun. The amior members of the organisation had panicked in the absence of Selchow, and he was the only person who had the presence of mind to take any common sente action. He had thus become the leader of the party. He was careful to point out that this was not due to any position he held within the organisation or to any superior competence he might have as a cryptographer, but purely to force of character. In discussion of questions of cryptographic detail he wished to be regarded merely as a member of Dr. Kunze's section.

- 2 -

The gentlemen appeared to be a confortable as was consistent with the circumstances, but were concerned about one of their number, Dr. CHULSIY, the was suspected of having acute tuberculosis. This had been discover d the day before they left Germany. It was arranged that he should have a medical examination.



# FICOND MEDTING (at 3 o'clock)

Present: The foregoing and Dr. Kunze, Dr. Faschke and UK Schauffler.

The basis on which the neetings were to be conjucted was explained to the new arrivals. The principle of 'One-sided exchange' was agreed to. (Comment: The interrogators felt much obliged to Lt. Col. Even. who appears to have been originally responsible for this highly diplom tic formula.)

Dr. Kunze was asked to sketch what in his opinion the principle successes of the organisation had been.

He stated that he himself had been employed on similar mork by the High Command in the last ar and mentioned success with Fritish naval cypher at that time.

In 1924 he had broken a French system of bigram substitution using 100-figure bigram tables on a 4-figure book.

Russian systems had been read at that time but, as Dr. Paschke opserved, after the appearance of the British White Paper in 1927 the Russians changed their systems and discouraged circular telegrans; there was then not enough depth.

Polish systems consisting of subtractor tables on a 4-figure block were mentioned as having been solved at about that time.

In 1929 or 1930 they began to read Jugoslav traffic employing bigrammatic substitution on a 5-figure book. At first the recypherient applied horizontally, later vertically. Manchurian systems were pentioned, but conversation branched off to the subject of Japanese. At this point ONR. Schauffler also took part in the conversation.

Until 1934 lower grade Japanese systems were read currently. After 1934 the Japanese went over increasingly to the use of a machine. The moral effect of the machine on the party had been considerable and it we some time before they discovered that it could theoretically be broken. They did not in fact read any traffic until September 1938. They then read the machine currently until February 1939 when it became unread ble owing to difficulties with wheel turn-over (Comment: The use of a different machine does not seem to have been considered). In the meantime they read all the back traffic as far back as 1936. They continued to read the lower grid material currently until the end.

ORR. Schauffler had worked on Chinese systems for 20 y ar, art of the time in conjunction with the celebrated liguist Leationsrat Free, whose pupil he considered himself to be. They read 4-figure and 1 letter traffic until 1930. At the beginning of the for Chines for up ain in conjunction with the O.K. which supplid personnel. It is include to discuss Far Eastern traffic in detail it some later ting.

They handled no attache traffic, either Japaness or my mar. Dr. Steinberg of the C.... was sid to have world on Japanese Ilitary attache traffic.

In 1939 Kunze is groad d by the Lufter of for asistance with Dritish we ther cypher. It as successful with these

In Ly 1939 they becan to break a mitight high atle water. In 1940 to 41 the tables run for three onthe, so that there are considerable depth (Comment: Incertain methor three are another to be such system). They found how or that the labour involved was much that it was too much trouble to read the material currently without machines. On the introduction of 'special' keys the investigation we discontinued. A written report was available on this subject (Cornet: The circumstances that this investigation was broken off in 1941 and that Hellerith machinery became available in 1942 may be connected, though this point was not raised at the time. They appear at all events to have had no further success with British systems. It was thought best not to press this point for the time being but to discuss it in detail at a later meeting).

\*\* 2 \*\*

In 1943 the American strip system No. 2 was solved, but with considerable time lag. It involved a great deal of time and effort. A machine was designed to eliminate this, and Dr. Kunze though that it must be with the machinery sent from Hermsdorf in three waggons, only one of which had arrived at Zschepplin. He thought that most of the workings on this system had been destroyed at Zschepplin.

Dr. Paschke was asked what success he had had with the Italian systems.

He replied that he had been instructed in 1935 to devote special attention to Italian and that the results had been the best imaginable; they had read everything ('Den schönsten Erfolg, den man sich denken kann; es wurde alles gelesen'). In 1942/45 work became increasingly difficult: the Italians increased their subtractor material before the collapse and employed bigram substitution over a subtractor over a book. If they had changed the book, the traffic would have become 'impossible' to read. After the collapse they read a Government code 'Impero' recypher in the figures from the encode, with little depth. Later the Government systems were not read for lack of depth, but it was thought that they used double transposition. The Neofascists had used a 5,000 figure subtractor assisted selution very much. In the last three months the Neofascists had used unrecyphered books which were easily read, and an alphabetical book with a short subtractor called RA 1.

When asked what assistance they had had from captured material he said that it was unwelcome and selder useful. They had never had any liason with foreign (e.g. Finnish, Hungarian or Japanese) cryptographic organisations and had never been visited by foreign cryptographer.

Note: All four gentlemen seemed to be fully co-operative, including Dr. Paschke, contrary to reports from the field. They were cone road about their security, as they had no privacy and would in the long run find it difficult to keep the nature of their work secret from their fellow internees. It was suggested that they wight be prepared to rite reports on their activity, to which all replied that they would be prepared to do so but their present circu stances were unsuited to 'Scientific work'.

The meeting was adjourned.

### THIRD MEETING

Held at 101 Nightingale Lane, anisworth on 12.5.45 at 12.15

Profe sor Vincent, Col. Cook U. ..., L. Jeil H. ... Dr. Lorster, Trl. Friedrichs Ord later: Prl. Dr. Jannitz, Trau Dr. Hunnke, Trl. Johr Ler.

It was decide before the meting

12

a. to discuss general matters only

b. to see Frl. Friedrichs alone first.

The basis on which the meetings were to be conducted we explained to rl. Friedrichs, who agreed. The conversation was conducted in an line.

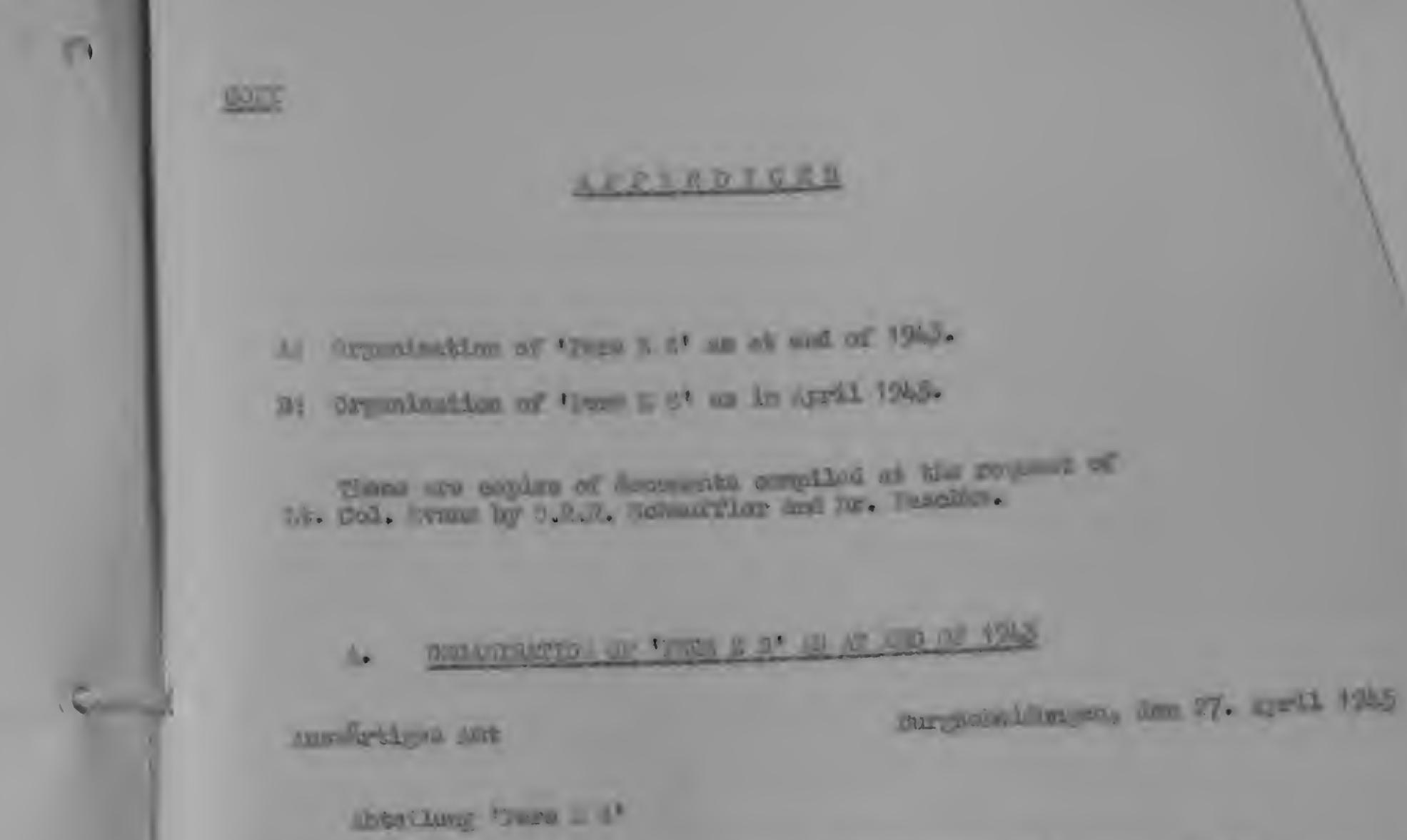
Friedrichs stated that her duty was decypherment of ul ried and other Slavonic cyphers. She had, however, from time to time to loaned to other sections. For instance she had been loaned for a time of Dr. Kunze at the time when the American strip system Humber 2 was being broken. She had maintained a personal interest in the American Strip system and had clearly enjoyed the work very much. She rentioned Dr. Lastron as an authority on U.S. systems. Her approach to the Vorl: 29 a whole was a professional one, the work gave her pleasure and she felt a proprietary interest in it. She touched on the position of vorm in the organisation. She said it had been a long fight to obtain for worch the same pay as men, but that that had finally been achieved, however, though they received the same pay they had not the same status. At the beginning of the war a great many women had been engaged somewhat to the chagrin of men who had not been used to vorking with large numbers of women. She instanced the case of one woman who had reached a senior position in the organisation, Frl. Hagen, for whom she evidently had a great addiration, and whom she characterised as an extremely able cryptogra her. Her duty was primarily British cypher systems and the systems of the Spanish and Portuguese countries. At the time of their departure from Cermony .rl. Hagen was in hospital with a skin complaint. When asked wiether she inc. of any connection that the organisation had with similar organisation outside, she answered in the negative. Such liason as was done was curried out by Dr. Paschke. She gave the impression that, far from there having been any co-ordination between the various cryptographic orgunisations, there was a considerable feeling of rivalry. The general impression that she gave of her organisation was that it was a small, self-contained dow, functioning entirely by itself, that it was starved of personnel and equiment and that little interest was taken in it higher up # The Meai of the organisation, was a competent administrator who underst od little about cryptography, and was content to leave the specialists to run their affairs as it seemed best to them. .... hen asked whether there had best to them. any evidence of appreciation of the work done in the organilation, un replied that there had been none. From time to time, copie of the tellgrams they is sued had been returned to then bearing a st indic they that they had been seen by the Führer, otherwise no indic tion of the 1portance attached to this work had penetrated to the level at mich we orke .. To intelligence as extracted from the material brin, uno ju such as as necessary in order to enable them to continue realing the traffic. There was no sense of ur ency in the office, decylerol canage ere not transmitted by tolegrinter by their recigient. In the transmitted by tolegrinter by their recigient. of translation of decyphered texts, the organisation had at blittel -igid rules and in general favourea a literal translation in community inction to the practice of the ONI, which was always concerned to round out will polish up the translation and make it flow: unually laving out corrant groups or obscure paragos. That and little encourage. .... connication of result in in the organization by junion of result in in the remulte as man carried out was done on a rurely informal bed a bettern Irionds.

\* Total performed thought to be from 120, of her 10 works in the layonic section. Fri. Friedrichs was concerned about the possible face of the man. She berusli had been shout the world a fair mammit and would find it sery to obtain different employment after the war. Nost of the non were already in late middle age; they had done nothing by eryptography all their lives and had no other interests and all dil not doe how they were going to support themselves without it. ( Comment: for statement was hade by the interrogators in response to this hint reperding the eventual disposal of the members of this organisation).

2.

It was felt that little more of a general nature could be elicited, so that it was decided to call in the remaining lading. When t discussion on personal matters was held with them. They have concerned about the fate of their mon-folk and wished information to be given to their relations in cernary that they ere safe and bound if this were possible. It was pointed out that the makers of the mosting had no power to do this but were prepared to transmit such request; they could, henever, give no guarantee that anything would be done. Mone of the lation appeared any the worse for their two days' sojurn in Holloway Irison.





d.i. Set all portage identic the frame diplomations to logar at the lar have identify "Souddy former's warmal taby or down on the book have des manarillons same une liebert.

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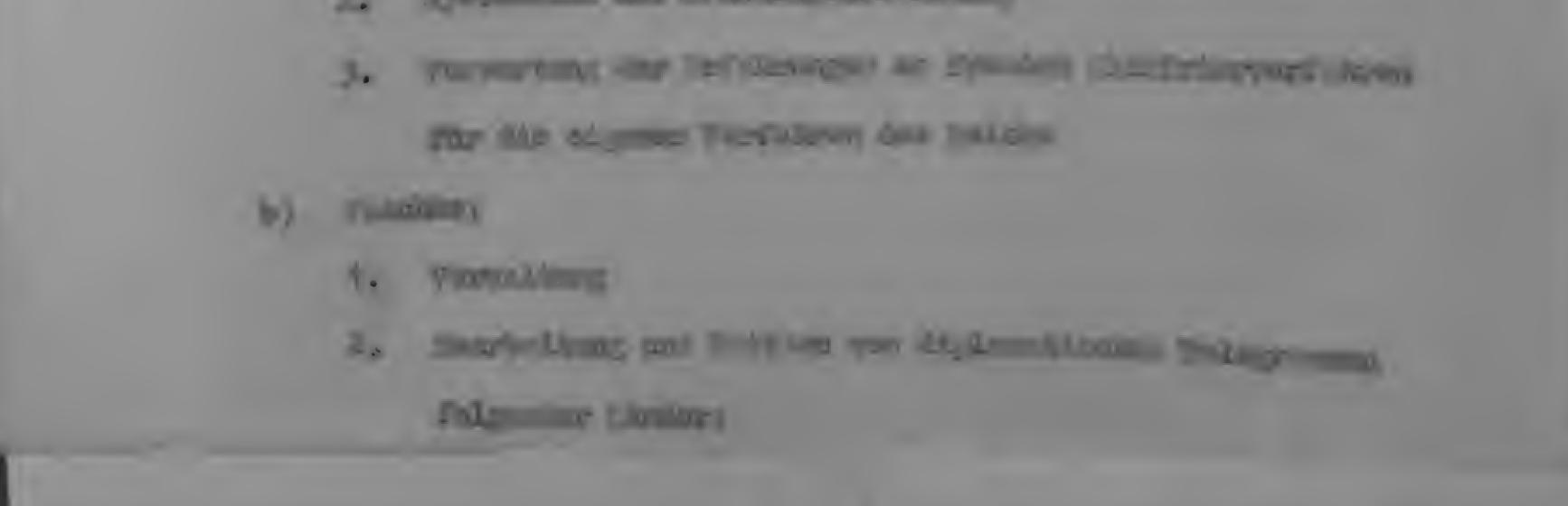
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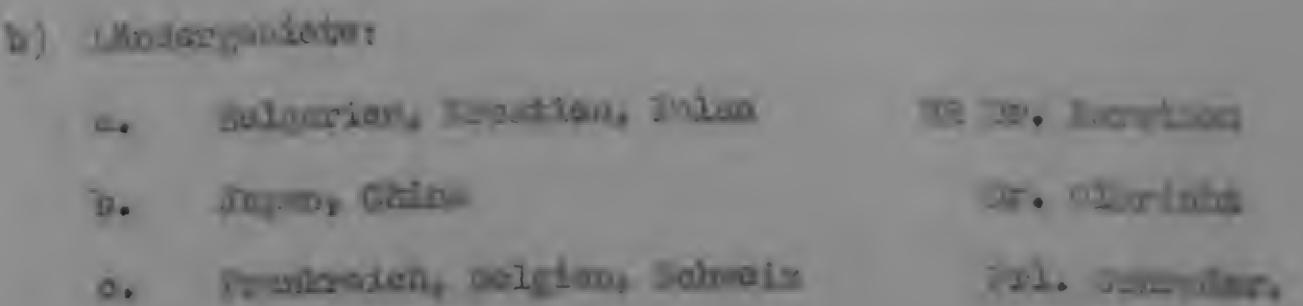
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# III Anaveichstolle Harmadarf (Rion mebicos)

3.

Laiter: Oberregierungsrat Dr. I. u.n. 20

Bourbeitung schwieriger kryptographiseer Freblete: Diegnose und Lücung neusuftrotender Chiffrierverfahrun, insbesondere seleher, die einen Grösseren Tersonel- und Keit- aufwand oder auch die Vorwendung beshnischer

Corite erroriera.

Nin charakteristisches Deispiel für die Insammenarbeit der obengenammten drei Dienststellen stellt des Arbeitagebiet Japan dar: Tänneni z. R. in einen bestlasten japanischen Vorfahren die Instlömung der Überschlunselung im Hernedert gemacht wurde (br. Hehreter) erfolgte die <u>Laufende</u> Lesung der weiteren Schlässel in Hirschberg (Dr. Olbricht) und wurde schlienslich der zugehörigt oder in Dahlen enteichnit, we auch die Übersetzung und Hernusgebe der betreifenden Polegrame vorgenommen murde (OM: Schnuffler).



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Regierungen.

Leiter: Gesandter I Tl. gelchow

Gliederung: (Stand von April 1945)

I. Systematik, Grundlagenforschung, issenschaftliches archiv Bericht-

wesen neferent: OIR Schauffler

Sprachlich-kryptologische Abteilung IIa

ORI Icsch. Leiter:

- A. Lander-Referate:
  - 1. Frankreich, Belgien, Schweis, Holland

Referent: IR Irakes

Britisches Imperium, Irland, Spanien, Portugel, Dittil-une 2. Sud-amerikanische Staaten, Thailand

Referent: M. rl. Hagen

vertreter: III. 11. ornick

). Italien, Vatikan, Griechenland, UdSSR

Referent: 099 Faschas Vertreter: D. Dr. Deubher Meferent: RP. Dr. Kesper Vortretor: Mil Conning

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## Sluwische Staaten (ausber Udder), Lettland, Lituden 5.

#### Mu. skundinavische staaten De.

Referent: 21 Dr. Baratilen Vertreter: Maria L. Driedrich Referent: ME Du. Duciller, FILLIN- TELEVI Vertreter: Mich Cantinger

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	8. Iran, Afghanistan, Arabische Straten		
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		vertretor	Dr. Olbricht
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Archiv der herausgegebeneb Telegraume

Leiter: MER Dr. Kunse

III. Kathematisch-kryptologische Abteilung Leiter: Di

Jun 30. April 1945.

Distribution.

Brigidier Tilton: Frommer Vincent Lier Sector (....) Lie Colt. Colen) Die Forster.

SECRET.

-2-

PUTS(H)/LF/934.

Report on the Interrogation of PW KP 196112 Feldw LAUN, Justus Ferdinand, Hafen Batterie M.A.A. 266, captured LE HAVRE on 12 Sep 44.

#### 1. PREAMBLE.

PW is a priest by profession, strongly unti-Nazi and the founder of the 'Arbeitsgemeinschaft für Seelsorge (A.G.S.)' - the German Oxford Group. He is a personal friend of BUCHMAN and knew the late Dr. TEMPLE. In 1927 he received from the LAURA SPELIMAN-ROCKEFEILER-MEMORIAL-FOUNDATION a two years' fellowship for Social Research at any approved university and came to England to study Economics and Theology for a year at BIRMINGHAM University and a year at BAILIOL COLLEGE, OXFORD. In 1934 he went to Canada for six weeks on a tour of the country with BUCHMAN in connection with the latter's group. In 1939 PW was called up to M Flak A 234, SYLT, where he was employed at Battle HQ and on Welfare work. In Feb 42 he was called to the German Foreign Office through the influence of a friend of his there, named Pastor HERMANN SAUER, where as a 'Wissen-

schaftlicher Hilfsarbeiter' PW was required to make use of his considerable knowledge of the English Language in translation in Pers Z Abt (PW did not know the meaning of this abbreviation). In Jul 42 without any reason being given PN was dismissed from the Foreign Office and after considerable delay was posted to MAA 266 LE HAVRE. PW took an oath not to disclose any infm regarding the German Foreign Office and as a priest he is therefore very reluctant to discuss any aspect of it. However, the infm given below is considered reliable.

# 2. PERS Z ABT, GERMAN FOREIGN OFFICE (Feb - Jul 42).

(a) Location: - Ground-floor, PRINZESSIN VIKTORIA LOUISE STIFT, PODBIELSKI ALLEE, BERLIN-DAHLEM.

(b) Composition and Organisation:-

This dept consisted of about 50 civilian men and women of all ages. All were well educated and the general atmosphere was intelloctual.

The dept was under comd of Geheimrat SELCHOW who also had an office in the WILHELMSTRASSE.

This dept was divided into sections (number unknown) which were probably all controlled by Regierungsraete. PH was unable to state number of people in each section.

#### (c) Duties:-

The whole dept was apparently concerned with the translation into German of diplomatic massages intercepted between the various enemy countries. PW's section was entirely concerned with messages to and from U.S.A. which were nearly all to or from the Secretary of State from or to American diplomatic representatives abroad, mostly in Turkey and the Mediterranean. The only exception was the American Red Cross whose messages were also intercepted.

When received in the dept, messages were ilready decoded. PW had no idea

whore this was done. When translated, messages were given by P7 to the official in charge of his section, Regierungsrat ZASTROW

# PWIS(H)/LF/954.

In some cases messages which were considered important were apparently forwarded to the Foreign Minister and HITLER, as once when looking through some old messages in the files, PW saw some bearing the stamp "Seen by the Fuehrer" with part of the message underlined, which he was told had been done by the Foreign Minister.

## (d) Personalities:-

- Geheimrat SELCHOW, Official in charge of Pers Z Abt

-2-

Official in charge of American section - Regierungsrat ZASTROW.

Major. SIO Lingfield Cage.

SECRET.

LINGFIELD, 29 Nov 44.

JR/WAHN

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